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## SEQUENCE LISTING

&lt;110&gt; MEDIMOLECULAR PTY LTD

&lt;120&gt; NOVEL MARKERS AND USES THEREOF

&lt;130&gt; 2558321/TDO

&lt;150&gt; US 60/322228

&lt;151&gt; 2001-09-14

&lt;160&gt; 338

&lt;170&gt; PatentIn version 3.0

&lt;210&gt; 1

&lt;211&gt; 289

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

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agcantgtgt agagggaaat ttatagcact aaatgcccac aagagaaagc aggaaagatc	240
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- 2 -

&lt;210&gt; 2

&lt;211&gt; 1584

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 2

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- 3 -

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&lt;210&gt; 3

&lt;211&gt; 417

&lt;212&gt; PRT

&lt;213&gt; mammalian

&lt;400&gt; 3

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Gly Thr Ser Thr Gln Thr Gln Ser Ser Cys Ser Val Pro Ser Ala Gln  
 20 25 30

Glu Pro Leu Val Asn Gly Ile Gln Val Leu Met Glu Asn Ser Val Thr  
 35 40 45

- 4 -

Ser Ser Ala Tyr Pro Asn Pro Ser Ile Leu Ile Ala Met Asn Leu Ala  
 50 55 60

Gly Ala Tyr Asn Leu Lys Ala Gln Lys Leu Leu Thr Tyr Gln Leu Met  
 65 70 75 80

Ser Ser Asp Asn Asn Asp Leu Thr Ile Gly His Leu Gly Leu Thr Ile  
 85 90 95

Met Ala Leu Thr Ser Ser Cys Arg Asp Pro Gly Asp Lys Val Ser Ile  
 100 105 110

Leu Gln Arg Gln Met Glu Asn Trp Ala Pro Ser Ser Pro Asn Ala Glu  
 115 120 125

Ala Ser Ala Phe Tyr Gly Pro Ser Leu Ala Ile Leu Ala Leu Cys Gln  
 130 135 140

Lys Asn Ser Glu Ala Thr Leu Pro Ile Ala Val Arg Phe Ala Lys Thr  
 145 150 155 160

Leu Leu Ala Asn Ser Ser Pro Phe Asn Val Asp Thr Gly Ala Met Ala  
 165 170 175

Thr Leu Ala Leu Thr Cys Met Tyr Asn Lys Ile Pro Val Gly Ser Glu  
 180 185 190

Glu Gly Tyr Arg Ser Leu Phe Gly Gln Val Leu Lys Asp Ile Val Glu  
 195 200 205

Lys Ile Ser Met Lys Ile Lys Asp Asn Gly Ile Ile Gly Asp Ile Tyr  
 210 215 220

Ser Thr Gly Leu Ala Met Gln Ala Leu Ser Val Thr Pro Glu Pro Ser  
 225 230 235 240

Lys Lys Glu Trp Asn Cys Lys Lys Thr Thr Asp Met Ile Leu Asn Glu



- 5 -

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	260		265		270
Pro Ser Leu Lys Gly Lys Thr Tyr Leu Asp Val Pro Gln Val Thr Cys					
	275		280		285
Ser Pro Asp His Glu Val Gln Pro Thr Leu Pro Ser Asn Pro Gly Pro					
	290		295		300
Gly Pro Thr Ser Ala Ser Asn Ile Thr Val Ile Tyr Thr Ile Asn Asn					
305		310		315	320
Gln Leu Arg Gly Val Glu Leu Leu Phe Asn Glu Thr Ile Asn Val Ser					
	325		330		335
Val Lys Ser Gly Ser Val Leu Leu Val Val Leu Glu Glu Ala Gln Arg					
	340		345		350
Lys Asn Pro Met Phe Lys Phe Glu Thr Thr Met Thr Ser Trp Gly Leu					
	355		360		365
Val Val Ser Ser Ile Asn Asn Ile Ala Glu Asn Val Asn His Lys Thr					
	370		375		380
Tyr Trp Gln Phe Leu Ser Gly Val Thr Pro Leu Asn Glu Gly Val Ala					
385		390		395	400
Asp Tyr Ile Pro Phe Asn His Glu His Ile Thr Ala Asn Phe Thr Gln					
	405		410		415

Tyr

&lt;210&gt; 4

&lt;211&gt; 353

&lt;212&gt; DNA

- 6 -

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 4

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tgaatgcggg tgttggaagt agaatatata tatacatata aaattgaaac tggcgatgga 120

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tctggctgaa ccagttccac aaggttactt gtatacatag cctgagttta aaaggctgtg 240

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aaataaaatc ttttanatca aaaaaaaaaa ngccctatag tgggtcgaat nag 353

&lt;210&gt; 5

&lt;211&gt; 191

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 5

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ccaggatgaa tgcgggtgtt ggaagtagaa tatatatata catataaaat tgggtgggag 120

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gattttnttt t 191

<210> 6

<211> 287

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

<400> 6

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aaggagatg gtaatcctat ggtccttagg cagtcangcc agaaaagga tgcttttana 180

ttctaaataa cacatattat aaaaggaatt atgatatgat gtcntctgaa ggtgccca 240

tgaaattaaa atgtctngga aaatgaattg tgtaatataa gatgata 287

<210> 7

<211> 3671

<212> DNA

<213> mammalian

<400> 7

aagcggctct caaccgaaac ctccccaggg gctacagtgg cctttccatg tggctttctc 60

acagcatgtt ggctgtgttc caatggtgaa agtcacaga gagagagaga gaccagtg 120

- 8 -

aaggcacatc atttttctaa acgactcctg gaagttacac ttctgctcca tcctgggact	180
acagggcaca taacaccatg ccagctaatt ttatgtgtgt gtgtgtgtgt gtgtgtgtgt	240
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- 9 -

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- 10 -

caaggcacag ggctggcacc tgagagtgga ggtacccagg aggcagacac cataaggcgg 2460

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- 11 -

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&lt;210&gt; 8

&lt;211&gt; 357

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 8

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ataaaacatg cttattttca nggtttttct ttagaaaggg atatgtgtca gggagatgaa 300  
agaatgtatt cttttcttgc atttgggtga cctgtaagtt taccctggg gtaaattg 357

&lt;210&gt; 9

&lt;211&gt; 244

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

- 12 -

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 9

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ctgc 244

&lt;210&gt; 10

&lt;211&gt; 342

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 10

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aaaaaaggcg ttggctggga tgcagacaac ttgaaatcct catacattgc caataggact 180

ataaaatggc acagccattt tggaaaacag tctggttagta cctcatgaca ttcactgtgt 240

gatccagcaa ttccactaga tgttacttaa gacaaggaaa atatgatgtc cacataaaaa 300



- 13 -

cttatacaaa tggtcataag agcattagtc acaatagcaa aa

342

&lt;210&gt; 11

&lt;211&gt; 440

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 11

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gggcatttat tcagtataga tttaatgaca aaggcttga gtcaacacac ttgtggggaa	180
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tctttttccg aagcttttgt aaaaccttcc agccttccaa gaaggttaca tctttctaca	420
atttttccac cccctgactg	440

&lt;210&gt; 12

&lt;211&gt; 211

&lt;212&gt; DNA

&lt;213&gt; mammalian

- 14 -

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 12

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agnttnacat gatataanac ttaatnctat gttctggggc ttnnatctga ggtgctcang 180

acatctcacc tttttattct ttatcaatcc a 211

&lt;210&gt; 13

&lt;211&gt; 230

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 13

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taaaaagttt ctggagattc catgtacaga nnanttatga atatacaatg taagtagaaa 180

atgaatccat ttaactatct ataaaactac tatctcctaa cccccctctg 230

&lt;210&gt; 14

- 15 -

&lt;211&gt; 875

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 14

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&lt;210&gt; 15

&lt;211&gt; 421

- 16 -

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 15

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cagtgaacca aaattgcacc actgcactcc atcctgggca acagagtga gctctgtctg      420
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&lt;210&gt; 16

&lt;211&gt; 290

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 16

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tacaaccatc tgatctttga caaacctgac aaaaacaaga aatggggaaa ggattccctc      180

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- 17 -

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<210> 17  
<211> 620  
<212> DNA  
<213> mammalian

<400> 17  
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<210> 18  
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<212> DNA

- 18 -

&lt;213&gt; mammalian

&lt;400&gt; 18

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&lt;210&gt; 19

&lt;211&gt; 641

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 19

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- 19 -

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&lt;210&gt; 20

&lt;211&gt; 2306

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 20

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- 20 -

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- 21 -

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&lt;210&gt; 21

&lt;211&gt; 263

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 21

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- 22 -

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ggatttagct gtaaaaaaaaa aaa 263

<210> 22

<211> 245

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

<400> 22

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aaaattaacc ttttatctag tgacagctag attgtatcac atttgtcatc tatggacact 180

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tgagg 245

<210> 23

<211> 253

<212> DNA

<213> mammalian

<400> 23

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- 23 -

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<210> 24  
 <211> 459  
 <212> DNA  
 <213> mammalian

<220>  
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 <222> ()..()  
 <223> "n" is an unknown nucleotide

<400> 24  
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 atgaanctct gaaagacact taggcaatgc cttcagggct tangcatggg gcaagntttc 360  
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<210> 25  
 <211> 457

- 24 -

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 25

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catgcttctg canattcgaa taaatctatg gctccga                                457

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&lt;210&gt; 26

&lt;211&gt; 261

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

- 25 -

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<210> 27  
 <211> 2470  
 <212> DNA  
 <213> mammalian

<400> 27  
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 aatgatagga tcagtgctgt gtctaggaag attgttcttg aaatgacaga gagctttaga 240  
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 ccaatttggga aatcataatt aaagatactg gagtgaataa gaacctcaga agagaggtaa 600

- 26 -

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- 27 -

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 aaaaaaaaaa 2470

&lt;210&gt; 28

&lt;211&gt; 2178

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 28

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- 28 -

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- 29 -

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&lt;210&gt; 29

&lt;211&gt; 2548

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 29

- 30 -

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- 32 -

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- 33 -

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 <213> mammalian

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Ala Gly Trp Arg Met Ile Leu Thr Ser  
                     35                      40

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 <213> mammalian

<400> 34

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Gly Leu Asn Ser Ala Ile Lys Arg His Arg Leu Ala Ser Trp Ile Lys  
                     20                      25                      30

Ser Gln Asp Pro Ser Val Cys Cys Ile Gln Glu Thr His Leu Thr Cys  
                     35                      40                      45

Arg Asp Thr His Arg Leu Lys Ile Lys Gly Trp Arg Lys Ile Tyr Gln  
                     50                      55                      60

Ala Asn Gly Lys Gln Lys Lys Ala Gly Val Ala Ile Leu Val Ser Asp

- 41 -

65		70		75		80
Lys Thr Asp Phe Lys Pro Thr Lys Ile Lys Arg Asp Lys Glu Gly His						
	85		90		95	
Tyr Ile Met Val Lys Gly Ser Ile Gln Gln Glu Glu Leu Thr Ile Leu						
	100		105		110	
Asn Ile Tyr Ala Pro Asn Thr Gly Ala Pro Arg Phe Ile Lys Gln Val						
	115		120		125	
Leu Ser Asp Leu Gln Arg Asp Leu Asp Ser His Thr Leu Ile Met Gly						
	130		135		140	
Asp Phe Asn Thr Pro Leu Ser Thr Leu Asp Arg Ser Thr Arg Gln Lys						
	145		150		155	160
Val Asn Lys Asp Thr Gln Glu Leu Asn Ser Ala Leu His Gln Ala Asp						
	165		170		175	
Leu Ile Asp Ile Tyr Arg Thr Leu His Pro Lys Ser Thr Glu Tyr Thr						
	180		185		190	
Phe Phe Ser Ala Pro His His Thr Tyr Ser Lys Ile Asp His Ile Val						
	195		200		205	
Gly Ser Lys Ala Leu Leu Ser Lys Cys Lys Arg Thr Glu Ile Ile Thr						
	210		215		220	
Asn Tyr Leu Ser Asp His Ser Ala Ile Lys Leu Glu Leu Arg Ile Lys						
	225		230		235	240
Asn Leu Thr Gln Ser Arg Ser Thr Thr Trp Lys Leu Asn Asn Leu Leu						
	245		250		255	
Leu Asn Asp Tyr Trp Val His Asn Glu Met Lys Ala Glu Ile Lys Met						
	260		265		270	

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275 280 285

Asp Ala Phe Lys Ala Val Cys Arg Gly Lys Phe Ile Ala Leu Asn Ala  
290 295 300

Tyr Lys Arg Lys Gln Glu Arg Ser Lys Ile Asp Thr Leu Thr Ser Gln  
305 310 315 320

Leu Lys Glu Leu Glu Lys Gln Glu Gln Thr His Ser Lys Ala Ser Arg  
325 330 335

Arg Gln Glu Ile Thr Lys Ile Arg Ala Glu Leu Lys Glu Ile Glu Thr  
340 345 350

Gln Lys Thr Leu Gln Lys Ile Asn Glu Ser Arg Ser Trp Phe Phe Glu  
355 360 365

Arg Ile Asn Lys Ile Asp Arg Pro Leu Ser Arg Leu Ile Lys Lys Lys  
370 375 380

Arg Glu Lys Asn Gln Ile Asp Thr Ile Lys Asn Asp Lys Gly Asp Ile  
385 390 395 400

Thr Thr Asp Pro Thr Glu Ile Gln Thr Thr Ile Arg Glu Tyr Tyr Lys  
405 410 415

His Leu Tyr Ala Asn Lys Leu Glu Asn Leu Glu Glu Met Asp Thr Phe  
420 425 430

Leu Asp Thr Tyr Thr Leu Pro Arg Leu Asn Gln Glu Glu Val Glu Ser  
435 440 445

Leu Asn Arg Pro Ile Thr Gly Ser Glu Ile Val Ala Ile Ile Asn Ser  
450 455 460

Leu Pro Thr Lys Lys Ser Pro Gly Pro Asp Gly Phe Thr Ala Glu Phe  
465 470 475 480

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Tyr Gln Arg Tyr Met Glu Glu Leu Val Pro Phe Leu Leu Lys Leu Phe  
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Gln Ser Ile Glu Lys Glu Gly Ile Leu Pro Asn Ser Phe Tyr Glu Ala  
                             500                            505                            510

Ser Ile Ile Leu Ile Pro Lys Pro Gly Arg Asp Thr Thr Lys Lys Glu  
                             515                            520                            525

Asn Phe Arg Pro Ile Ser Leu Met Asn Ile Asp Ala Lys Ile Leu Asn  
                             530                            535                            540

Lys Ile Leu Ala Asn Arg Ile Gln Gln His Ile Lys Lys Leu Ile His  
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His Asp Gln Val Gly Phe Ile Pro Gly Met Gln Gly Trp Phe Asn Ile  
                             565                            570                            575

Arg Lys Ser Ile Asn Val Ile Gln His Ile Asn Arg Ala Asn Asp Lys  
                             580                            585                            590

Asn His Met Ile Ile Ser Ile Asp Ala Glu Lys Ala Phe Asp Lys Ile  
                             595                            600                            605

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Thr Tyr Phe Lys Ile Ile Arg Ala Ile Tyr Asp Lys Pro Thr Ala Asn  
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Ile Ile Leu Asn Gly Gln Lys Leu Glu Ala Phe Pro Leu Lys Thr Gly  
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Thr Arg Gln Gly Cys Pro Leu Ser Pro Leu Leu Phe Asn Ile Val Leu  
                             660                            665                            670

Glu Val Leu Ala Arg Ala Ile Arg Gln Glu Lys Glu Ile Lys Gly Ile

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675	680	685
Gln Leu Gly Lys Glu Glu Val Lys Leu Ser Leu Phe Ala Asp Asp Met		
690	695	700
Ile Val Tyr Leu Glu Asn Pro Ile Val Ser Ala Gln Asn Leu Leu Lys		
705	710	715 720
Leu Ile Ser Asn Phe Ser Lys Val Ser Gly Tyr Lys Ile Asn Val Gln		
725	730	735
Lys Ser Gln Ala Phe Leu Tyr Thr Asn Asn Arg Gln Thr Glu Ser Gln		
740	745	750
Ile Met Gly Glu Leu Pro Phe Val Ile Ala Ser Lys Arg Ile Lys Tyr		
755	760	765
Leu Gly Ile Gln Leu Thr Arg Asp Val Lys Asp Leu Phe Lys Glu Asn		
770	775	780
Tyr Lys Pro Leu Leu Lys Glu Ile Lys Glu Asp Thr Asn Lys Trp Lys		
785	790	795 800
Asn Ile Pro Cys Ser Trp Val Gly Arg Ile Asn Ile Val Lys Met Ala		
805	810	815
Ile Leu Pro Lys Val Ile Tyr Arg Phe Asn Ala Ile Pro Ile Lys Leu		
820	825	830
Pro Met Thr Phe Phe Thr Glu Leu Glu Lys Thr Thr Leu Lys Phe Ile		
835	840	845
Trp Asn Gln Lys Arg Ala Arg Ile Ala Lys Ser Ile Leu Ser Gln Lys		
850	855	860
Asn Lys Ala Gly Gly Ile Thr Leu Pro Asp Phe Lys Leu Tyr Tyr Lys		
865	870	875 880



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885 890 895

Asp Gln Trp Asn Arg Thr Glu Pro Ser Glu Ile Met Pro His Ile Tyr  
900 905 910

Asn Tyr Leu Ile Phe Asp Lys Pro Glu Lys Asn Lys Gln Trp Gly Lys  
915 920 925

Asp Ser Leu Phe Asn Lys Trp Cys Trp Glu Asn Trp Leu Ala Ile Cys  
930 935 940

Arg Lys Leu Lys Leu Asp Pro Phe Leu Thr Pro Tyr Thr Lys Ile Asn  
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Ser Arg Trp Ile Lys Asp Leu Asn Val Lys Pro Lys Thr Ile Lys Thr  
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Asp Phe Met Ser Lys Thr Pro Lys Ala Met Ala Thr Lys Asp Lys Ile  
995 1000 1005

Asp Lys Trp Asp Leu Ile Lys Leu Lys Ser Phe Cys Thr Ala Lys  
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Glu Thr Thr Ile Arg Val Asn Arg Gln Pro Thr Thr Trp Glu Lys  
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Ile Phe Ala Thr Tyr Ser Ser Asp Lys Gly Leu Ile Ser Arg Ile  
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Tyr Asn Glu Leu Lys Gln Ile Tyr Lys Lys Lys Thr Asn Asn Pro  
1055 1060 1065

Ile Lys Lys Trp Ala Lys Asp Met Asn Arg His Phe Ser Lys Glu  
1070 1075 1080

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Asp	Ile	Tyr	Ala	Ala	Lys	Lys	His	Met	Lys	Lys	Cys	Ser	Ser	Ser
1085							1090					1095		

Leu	Ala	Ile	Arg	Glu	Met	Gln	Ile	Lys	Thr	Thr	Met	Arg	Tyr	His
1100							1105					1110		

Leu	Thr	Pro	Val	Arg	Met	Ala	Ile	Ile	Lys	Lys	Ser	Gly	Asn	Asn
1115							1120					1125		

Arg	Cys	Trp	Arg	Gly	Cys	Gly	Glu	Ile	Gly	Thr	Leu	Leu	His	Cys
1130							1135					1140		

Trp	Trp	Asp	Cys	Lys	Leu	Val	Gln	Pro	Leu	Trp	Lys	Ser	Val	Trp
1145							1150					1155		

Arg	Phe	Leu	Arg	Asp	Leu	Glu	Leu	Glu	Ile	Pro	Phe	Asp	Pro	Ala
1160							1165					1170		

Ile	Pro	Leu	Leu	Gly	Ile	Tyr	Pro	Asn	Glu	Tyr	Lys	Ser	Cys	Cys
1175							1180					1185		

Tyr	Lys	Asp	Thr	Cys	Thr	Arg	Met	Phe	Ile	Ala	Ala	Leu	Phe	Thr
1190							1195					1200		

Ile	Ala	Lys	Thr	Trp	Asn	Gln	Pro	Lys	Cys	Pro	Thr	Met	Ile	Asp
1205							1210					1215		

Trp	Ile	Lys	Lys	Met	Trp	His	Ile	Tyr	Thr	Met	Glu	Tyr	Tyr	Ala
1220							1225					1230		

Ala	Ile	Lys	Asn	Asp	Glu	Phe	Ile	Ser	Phe	Val	Gly	Thr	Trp	Met
1235							1240					1245		

Lys	Leu	Glu	Thr	Ile	Ile	Leu	Ser	Lys	Leu	Ser	Gln	Glu	Gln	Lys
1250							1255					1260		

Thr	Lys	His	Arg	Ile	Phe	Ser	Leu	Ile	Gly	Gly	Asn
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

- 47 -

1265

1270

1275

&lt;210&gt; 35

&lt;211&gt; 374

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 35

gtgatttaat acgactcact atagggcttt ttttttttta ctcattttaa ataaatnga 60

atgaattttc ttctaaaaat aatgtagct gatgctggtt ctttcccgca ctttcagaaa 120

caaaatatnc ntntntttta catatcaaaa gngatnccta agattaaatc cctttgtaac 180

ctcctggata caaagagtcc tttgngccac agtaggacag caggaccttt attnaattnc 240

tatnctttat ttgncagaat tcaacagctg gtaaaaagac tctaagcagg tatttttagg 300

aagatcttaa aataaggata tattgttttt gaaattccaa caatgaatag actctttttt 360

ggctattttg agcc 374

&lt;210&gt; 36

&lt;211&gt; 935

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 36

tgatataagt ttagccacac tttgatttgg gttcattttt tgttttgttt ttttcaatca 60

tgatattcag aaaaatccag gatccaaaat gtggcgtttt totaagaatg aaaattatat 120

- 48 -

gtaagctttt aagcatcatg aagaacaatt tatgttcaca ttaagatacg ttctaaaggg 180  
ggatggccaa ggggtgacat cttaattcct aaactacctt agctgcatag tggaagagga 240  
gagcatgaag caaagaattc caggaaaccc aagaggctga gaattctttt gtctaccata 300  
gaattattat ccagactgga atttttgttt gttagaacac cttcagttg caatatgcta 360  
atcccacttt acaaagaata taaaagctat attttgaaga cttgagttat ttcagaaaaa 420  
actacagccc tttttgtctt acctgccttt tactttcgtg tggatatgtg aagcattggg 480  
tcgggaacta gctgtagaac acaactaaaa actcatgtct tttttcacag aataatgtgc 540  
cagttttttg tagcaatgat atttctcttg gaagcagaaa tgctttgtac cagagcacct 600  
ccaaactgca ttgaggagaa gttccagaac catccccttt ttccattttt atataattta 660  
taaagaaaga ttaaagccat gttgactatt ttacagccac tggagttaac taacccttcc 720  
ttgtatctgt cttcccagga gagaatgaag caaaacagga atttggtttt cttttgatgt 780  
ccagttacac catccattct gttaattttg aaaaaatata ccctcccttt agtttggttg 840  
gggatataaa ttattctcag gaagaatata atgaactgta cagttacttt gacctattaa 900  
aaaggtgtta ccagcaaaaa aaaaaaaaaa aaaaa 935

&lt;210&gt; 37

&lt;211&gt; 302

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

- 49 -

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 37

tgatttaata cgactcacta tagggccttt ttttttttac tagtcttgct ancggnctgt	60
caatthttgtt gatcttttca aaaanccagg ncctggattc attaatthtt tgaagggttt	120
tttnggtctn tatctcctcc agttctgctc tgatcttagt tatttcttgc cttctgctac	180
cntttngaatt gngttngctc tngcttttct agttctttta atngggangt tagggngtca	240
atthttanato tttcctgctt tctcttgggg ncattaaggg ctataaattn ccctgtncac	300
ac	302

&lt;210&gt; 38

&lt;211&gt; 1200

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 38

aagatataaa agctccagaa acgttgactg ggaccactgg agacactgaa gaaggcaggg	60
gcccttagag tcttggttgc caaacagatt tgcagatcaa ggagaacca ggagthttcaa	120
agaagcgcta gtaaggcttc tgagatcctt gcactagcta catcctcagg gtaggaggaa	180
gatggcttcc agaagcatgc ggctgctcct attgctgagc tgcttgcca aaacaggagt	240
cctgggtgat atcatcatga gaccagctg tgctcctgga tggthttacc acaagtccaa	300
ttgctatggg tacttcagga agctgaggaa ctggctgat gccgagctcg agtgtcagtc	360
ttacggaaac ggagcccacc tggcatctat cctgagthta aaggaagcca gcaccatagc	420
agagtacata agtggctatc agagaagcca gccgatatgg attggcctgc acgaccacaa	480

- 50 -

```

gaagaggcag cagtggcagt ggattgatgg ggccatgtat ctgtacagat cctgggtctgg      540
caagtccatg ggtgggaaca agcactgtgc tgagatgagc tccaataaca actttttaac      600
ttggagcagc aacgaatgca acaagcgcca acacttcctg tgcaagtacc gaccatagag      660
caagaatcaa gattctgcta actcctgcac agccccgtcc tcttcctttc tgctagcctg      720
gctaaatctg ctcattatth cagaggggaa acctagcaaa ctaagagtga taagggcctt      780
actacactgg ctttttttagg cttagagaca gaaactttag cattggccca gtagtggctt      840
ctagctctaa atgtttgccc cgccatccct ttccacagta tccttcttcc ctctccctt      900
gtctctggct gtctcgagca gtctagaaga gtgcatctcc agcctatgaa acagctgggt      960
ctttggccat aagaagtaaa gatttgaaga cagaaggaag aaactcagga gtaagcttct     1020
agacccttc agcttctaca cccttctgcc ctctctccat tgctgcacc ccacccagc     1080
cactcaactc ctgcttggtt ttcctttggc cataggaagg ttaccagta gaatccttgc     1140
taggttgatg tgggccatac attcctttaa taaaccattg tgtacataag aaaaaaaaaa     1200

```

&lt;210&gt; 39

&lt;211&gt; 158

&lt;212&gt; PRT

&lt;213&gt; mammalian

&lt;400&gt; 39

```

Met Ala Ser Arg Ser Met Arg Leu Leu Leu Leu Leu Ser Cys Leu Ala
1           5           10           15

```

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Lys Thr Gly Val Leu Gly Asp Ile Ile Met Arg Pro Ser Cys Ala Pro
20           25           30

```

- 51 -

Gly Trp Phe Tyr His Lys Ser Asn Cys Tyr Gly Tyr Phe Arg Lys Leu  
                   35                                  40                                  45

Arg Asn Trp Ser Asp Ala Glu Leu Glu Cys Gln Ser Tyr Gly Asn Gly  
           50                                  55                                  60

Ala His Leu Ala Ser Ile Leu Ser Leu Lys Glu Ala Ser Thr Ile Ala  
   65                                  70                                  75                                  80

Glu Tyr Ile Ser Gly Tyr Gln Arg Ser Gln Pro Ile Trp Ile Gly Leu  
                                   85                                  90                                  95

His Asp Pro Gln Lys Arg Gln Gln Trp Gln Trp Ile Asp Gly Ala Met  
                   100                                  105                                  110

Tyr Leu Tyr Arg Ser Trp Ser Gly Lys Ser Met Gly Gly Asn Lys His  
           115                                  120                                  125

Cys Ala Glu Met Ser Ser Asn Asn Asn Phe Leu Thr Trp Ser Ser Asn  
           130                                  135                                  140

Glu Cys Asn Lys Arg Gln His Phe Leu Cys Lys Tyr Arg Pro  
   145                                  150                                  155

<210> 40

<211> 497

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

<400> 40

tttcacttgt cgcaccaggc gtatttcctc tggaatntaa cgagtgtggc aaggccttca

60

- 52 -

gccacagttc caatctcatc ctccatcagc gcatccactc tggagagaaa ctttatgaat 120  
 gtaatgagtg cgggaaggcc ttcagccaga gctcggacct caccaagcat cagagaattc 180  
 acacggggga gaaaccctat gaatgtagtg aatgtnnaaa agctttcaac cgaaactcat 240  
 acctgatttt gcatcggaga attcacactc gagaaaagcc ctacaagtgc actaagtgtg 300  
 gcaaggcctt caccgcgagc tccaccctca ctctgcatca cagaatccat gccagagaga 360  
 gagcctctga gtacagccca gcctcccttg atgcatttgg cgcgttcctg aaaagttgtg 420  
 tgtaaaggaa gaatttgcca tcaagccatt tccccttttg tttctaaatt atttcanaga 480  
 tgtgtgctct ggangga 497

<210> 41  
 <211> 451  
 <212> DNA  
 <213> mammalian

<400> 41  
 gctcccgaag tgatacggag gttaggatgc tacttgctgc aaacaagccc tactttggcc 60  
 aacatcctgc ttattttctca aaaaagaggg acagtgaaaa caaaaacgac attgggacat 120  
 gctgctcaag gtagttatat atacgataag ttgtatatat gatcactggg agcctaccaa 180  
 agctgtagaa atctaggact gtgctaataca gtatcaaacc aaagatttct atctcttccc 240  
 gaaagagagg gtatgtgcac cagtctacag ttccaaagga ctgcaacaaa tgtagatggg 300  
 tctgtctctca tccctgagat cagttctact gaaatggcaa caacaactcc aaatacatct 360  
 ctcccttctt gaaatcccta aagcactatc gcactcctaa atgcatttct cccaagttag 420



- 53 -

cacttgattg atctgtcttt aatccttcat t

451

&lt;210&gt; 42

&lt;211&gt; 469

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 42

cccttcccct cttctctcag ttttggacaa gtgacaaacc attttgcccc ctcaactcttc 60

ttttttaact gttaaaccac aggaaagcac aaatgaagga aatcctgtgt aaagcattga 120

gaaggaaaga agcctggagc agcctctcct gtccacagcc aggggttagg tctgcaggcc 180

cgtctgcggt ccccatcgag catcaagggg acgcntgtgt gtgcatgcaa gtgaccccga 240

aaacaaccac agccgtcaca tggctcctct gaagttgggg caccctctct tcagcaccaa 300

aatggccccc actccttcgt gtctctccgc tatctccaaa tcggacgttc tttctagctt 360

gagattttta tttttccaca tctgtagtgc catgaagcga ttctgtcttt gacttccaat 420

ggcaaacctg ggtgatcggg aacaagcacg ttgtaccctt ggctggaca 469

&lt;210&gt; 43

&lt;211&gt; 1584

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 43

- 54 -

cggggcagct ctgaggaaca aggtggaagc tcagagcgct ggtctccacc ctggtgcccc	60
tgggctggtg ctggcagtgg gagccgtggc tgtggatgag agacatagac gagagagtga	120
gatggcctgg tttgccctct acctcctgag ccttctctgg gctacagctg ggactagtag	180
ccagacccag agttcatgct ccgttcctc agcacaggag cccttgggtca atggaatata	240
agtactcatg gagaactcgg tgacttcata agcctaccca aaccccagca tcttgattgc	300
catgaatctg gccggagcct acaacttgaa ggcccagaag ctctgactt accagctcat	360
gtccagcgac aacaacgata taaccattgg gcacctcggc ctacccatca tggccctcac	420
ctctctctgc cgagaccctg gggataaagt atccattcta caaagacaaa tggagaactg	480
ggcaccttcc agccccaacg ctgaagcctc agccttctat gggcccagtc tagcgatctt	540
ggcactgtgc cagaagaact ctgaggcgac cttgccgata gccgtccgct ttgccaagac	600
cctgctggcc aactcctctc ctttcaatgt agacacagga gcaatggcaa ccttggctct	660
gacctgtatg tacaacaaga tccctgtagg ttcagaggaa ggttacagat cctgttttgg	720
tcaggtacta aaggatattg tggagaaaat cagcatgaag atcaaagata atggcatcat	780
tggagacatc tacagtactg gcctcgccat gcaggctctc tctgtaacac ctgagccatc	840
taaaaaggaa tggaactgca agaagactac ggatatgata ctcaatgaga ttaagcaggg	900
gaaattccac aaccccatgt ccattgctca aatcctccct tccctgaaag gcaagacata	960
cctagatgtg ccccagggtca cttgtagtcc tgatcatgag gtacaaccaa ctctaccag	1020
caaccctggc cctggcccca cctctgcata taacatcact gtcataataa ccataaataa	1080
ccagctgagg ggggttgagc tgctcttcaa cgagaccatc aatgttagtg tgaaaagtgg	1140

- 55 -

gtcagtgtta cttgttgtcc tagaggaagc acagcgcaaa aatcctatgt tcaaatttga 1200  
 aaccacaatg acatcttggg gccttgtcgt ctcttctatc aacaatatcg cggaaaatgt 1260  
 taatcacaag acatactggc agtttcttag tgggtgaaca cctttgaatg aaggggttgc 1320  
 tgactacata cccttcaacc acgagcacat cacagccaat ttcacacagt actaacgaag 1380  
 aggtgggttc agcttctatc aaacatctcc aaaggatggg tgaaattttt tccacttcat 1440  
 tttaaatcta tgcaaaaaag cgaatgcctg tgatgctacc atattcctgg taaaaacatg 1500  
 gagaaccact atgtagaata aaaatgcaaa gttcactgga gtctcaacat ctatgactca 1560  
 tgaaaataaa attttcatct tctc 1584

&lt;210&gt; 44

&lt;211&gt; 417

&lt;212&gt; PRT

&lt;213&gt; mammalian

&lt;400&gt; 44

Met Ala Trp Phe Ala Leu Tyr Leu Leu Ser Leu Leu Trp Ala Thr Ala  
 1 5 10 15

Gly Thr Ser Thr Gln Thr Gln Ser Ser Cys Ser Val Pro Ser Ala Gln  
 20 25 30

Glu Pro Leu Val Asn Gly Ile Gln Val Leu Met Glu Asn Ser Val Thr  
 35 40 45

Ser Ser Ala Tyr Pro Asn Pro Ser Ile Leu Ile Ala Met Asn Leu Ala  
 50 55 60

Gly Ala Tyr Asn Leu Lys Ala Gln Lys Leu Leu Thr Tyr Gln Leu Met  
 65 70 75 80

- 56 -

Ser Ser Asp Asn Asn Asp Leu Thr Ile Gly His Leu Gly Leu Thr Ile  
85 90 95

Met Ala Leu Thr Ser Ser Cys Arg Asp Pro Gly Asp Lys Val Ser Ile  
100 105 110

Leu Gln Arg Gln Met Glu Asn Trp Ala Pro Ser Ser Pro Asn Ala Glu  
115 120 125

Ala Ser Ala Phe Tyr Gly Pro Ser Leu Ala Ile Leu Ala Leu Cys Gln  
130 135 140

Lys Asn Ser Glu Ala Thr Leu Pro Ile Ala Val Arg Phe Ala Lys Thr  
145 150 155 160

Leu Leu Ala Asn Ser Ser Pro Phe Asn Val Asp Thr Gly Ala Met Ala  
165 170 175

Thr Leu Ala Leu Thr Cys Met Tyr Asn Lys Ile Pro Val Gly Ser Glu  
180 185 190

Glu Gly Tyr Arg Ser Leu Phe Gly Gln Val Leu Lys Asp Ile Val Glu  
195 200 205

Lys Ile Ser Met Lys Ile Lys Asp Asn Gly Ile Ile Gly Asp Ile Tyr  
210 215 220

Ser Thr Gly Leu Ala Met Gln Ala Leu Ser Val Thr Pro Glu Pro Ser  
225 230 235 240

Lys Lys Glu Trp Asn Cys Lys Lys Thr Thr Asp Met Ile Leu Asn Glu  
245 250 255

Ile Lys Gln Gly Lys Phe His Asn Pro Met Ser Ile Ala Gln Ile Leu  
260 265 270

Pro Ser Leu Lys Gly Lys Thr Tyr Leu Asp Val Pro Gln Val Thr Cys

- 57 -

275		280		285
Ser Pro Asp His Glu Val Gln Pro Thr Leu Pro Ser Asn Pro Gly Pro				
290		295		300
Gly Pro Thr Ser Ala Ser Asn Ile Thr Val Ile Tyr Thr Ile Asn Asn				
305		310		315 320
Gln Leu Arg Gly Val Glu Leu Leu Phe Asn Glu Thr Ile Asn Val Ser				
	325		330	335
Val Lys Ser Gly Ser Val Leu Leu Val Val Leu Glu Glu Ala Gln Arg				
	340		345	350
Lys Asn Pro Met Phe Lys Phe Glu Thr Thr Met Thr Ser Trp Gly Leu				
	355		360	365
Val Val Ser Ser Ile Asn Asn Ile Ala Glu Asn Val Asn His Lys Thr				
	370		375	380
Tyr Trp Gln Phe Leu Ser Gly Val Thr Pro Leu Asn Glu Gly Val Ala				
385		390		395 400
Asp Tyr Ile Pro Phe Asn His Glu His Ile Thr Ala Asn Phe Thr Gln				
	405		410	415

Tyr

&lt;210&gt; 45

&lt;211&gt; 247

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

- 58 -

<400> 45  
actgtcccccg gggcgagac cctgnactcg gggacttggg atgttcctct tgggtgtcata 60  
ttccaactca gattgagccc tacattgtgc tgcacctggt ccatacggag ttgaatcaga 120  
cctggttccc gcctcccccagggtcatgg tccttggagg acccgttgca gggcgaggtc 180  
aagaagagtt ctgacctgga tggcccatag acctgacgtc ccagaatcca tgctttcttc 240  
attttgc 247

<210> 46  
<211> 454  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 46  
ctcctgatat agcaacaaag cctgggcaac ctttgttcct ggattctatt tctcctaaaa 60  
aatcttttaa gactcgaaaa caaaagtctt cttcaaaggc tgaatacaat ttaactgcat 120  
gcaaatgcct cctttgcaag aggaaatata gttcacaaat aatgcttaaa agacatatgc 180  
ntattgtcca caagataact ctttctggaa caaactctaa aagagaaaaa ggcctaata 240  
atactgccaa cagttcagaa ataacagtta aagttgaacc agcagattct gtagaatctt 300  
cccccccttc cattacccat tctccacaga atgaattaaa gggaacaaat cattcaaattg 360

- 59 -

aaaaaaagaa cacaccggca gcacagaaaa ataaagttaa acaagactct gaaagcccta 420

aatcaactag tccgtcggct gcaggtggcc agca 454

<210> 47

<211> 382

<212> DNA

<213> mammalian

<400> 47

acacccatgg gaggtcatgc ctgatctgta cttctacaga gatcctgaag agattgaaaa 60

agaagagcag gctgctgctg agaaggcagt gaccaaggag gaatttcagg gtgaatggac 120

tgctcccgct cctgagttca ctgctactca gcctgagggt gcagactggt ctgaagggtg 180

acaggtgccc tctgtgcta ttcagcaatt ccctacttga agactggagc gtcagcctg 240

ccacggaaga ctggtctgca gctccactg ctcaggccac tgaatgggta ggagcaacca 300

ctgactggtc ttaagctgtt cttgcatagg ctcttaagca gcatggaaaa atgggttgat 360

ggaaaataaa catcagtttc ca 382

<210> 48

<211> 361

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

<400> 48

- 60 -

tgttttttget atgctcttcc cttttttcttc ccttttctctg tgaagcagcc attttttatta 60  
 nnttcctggt tatcactcat gcatgcatat gtttattgag gatgttgga ttcaagcaaa 120  
 tatatggggt aacattcttt ttgtcatccc tatacgaaag atatacccag tatactctat 180  
 tgggtggggt tttttcctta aaatattcag tagatctctc cagttagcac atagttatct 240  
 tatagataga acatatacat ataccctttn ttaactatgc tattaaaata tagctttcag 300  
 taccttgata attattttgg gattgaaaaa ctactggaaa tcaactcaat catgtgaaag 360  
 c 361

&lt;210&gt; 49

&lt;211&gt; 475

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 49

acacatctgc tcctgctctc tctcctccag cgaccctagc catgagaacc ctccaccatcc 60  
 tcactgctgt tctcctcgtg gccctccagg ccaaggctga gccactccaa gctgaggatg 120  
 atccactgca ggcaaaaagct tatgaggctg atgccagga gcagcgtggg gcaaatgacc 180  
 aggactttgc cgtctccttt gcagaggatg caagctcaag tcttagagct ttgggctcaa 240  
 caagggttt cacttgccat tgcagaaggt cctgttatc aacagaatat tcctatggga 300  
 cctgcactgt catgggtatt aaccacagat tctgctgcct ctgagggatg agaacagaga 360  
 gaaatatatt cataatttac tttatgacct agaaggaaac tgtcgtgtgt ccatacatt 420  
 gccatcaact ttgtttcctc atctcaaata aagtcctttc agcaaaaaaa aaaaa 475



- 61 -

&lt;210&gt; 50

&lt;211&gt; 100

&lt;212&gt; PRT

&lt;213&gt; mammalian

&lt;400&gt; 50

Met Arg Thr Leu Thr Ile Leu Thr Ala Val Leu Leu Val Ala Leu Gln  
1 5 10 15

Ala Lys Ala Glu Pro Leu Gln Ala Glu Asp Asp Pro Leu Gln Ala Lys  
20 25 30

Ala Tyr Glu Ala Asp Ala Gln Glu Gln Arg Gly Ala Asn Asp Gln Asp  
35 40 45

Phe Ala Val Ser Phe Ala Glu Asp Ala Ser Ser Ser Leu Arg Ala Leu  
50 55 60

Gly Ser Thr Arg Ala Phe Thr Cys His Cys Arg Arg Ser Cys Tyr Ser  
65 70 75 80

Thr Glu Tyr Ser Tyr Gly Thr Cys Thr Val Met Gly Ile Asn His Arg  
85 90 95

Phe Cys Cys Leu  
100

&lt;210&gt; 51

&lt;211&gt; 515

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

- 62 -

<400> 51  
 nggggcccgtg ggcgattnca acagctgatn tttatTTTTtC ttcttgattc tcttctacag 60  
 tttccaaatt ctctacaatg aacatgtact tctttttaat atcaaaagac aaaagaattg 120  
 gtacgtaaaa agaacatcct tcccatcttc aaggtcaaga ttgaacgctg actcctgcag 180  
 gaagtcttcc aggattccca ggcaggaatg atggctccct gtcctgtag ctccaggagt 240  
 tcttgcttca cgcacgcctc acataccana ctgaatgttg gcaggaggag tgaccaggtc 300  
 ggtcatctgt gtccctacca cctacaacag gccagcaatc taccctgttg tgtttggttg 360  
 acagaattaa ccatgatggg cggccgaggg cgcctggagc tatttggggg cttggagaga 420  
 acctcttagg agagtgtcag gctctaggcc agtgtcacca gaggaggcca gtctcagtcc 480  
 ttggagtcgt cctgtgtgaa attgttatcc cgcta 515

<210> 52  
 <211> 340  
 <212> DNA  
 <213> mammalian

<220>  
 <221> misc\_feature  
 <222> ()..()  
 <223> "n" is an unknown nucleotide

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 tgatggtttg aaggaactca ncantatgat gatctgggtc caggggaaaa aaatagcttg 180

- 63 -

gttgggtgtct agccccccaa cactttttgtn tcgtttgtgta taaaagaaga aagactggca 240  
 tgtaccttca tttgcttagc tatttgagta tctagagaaa aattaaaatg caatgagtta 300  
 cgcantatac cctggcacac ttaataaatt aaacatttgt 340

&lt;210&gt; 53

&lt;211&gt; 441

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 53

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 agcggnccnat ngggtaangc gccngccccg nnnnanncn ccaactgtgc nnttaaccnc 360  
 ccatnccgn anancgacgc canncgnnt nccaaccnn ngggngggnc ncnnngcnncg 420  
 ccgcnngctc ccctacgacc a 441

&lt;210&gt; 54

- 64 -

<211> 373  
 <212> DNA  
 <213> mammalian

<220>  
 <221> misc\_feature  
 <222> ()..()  
 <223> "n" is an unknown nucleotide

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 <213> mammalian

<400> 55  
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- 65 -

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agtgcctcaa agaaa 495

&lt;210&gt; 56

&lt;211&gt; 2691

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 56

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- 66 -

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&lt;210&gt; 57

&lt;211&gt; 683

&lt;212&gt; PRT

&lt;213&gt; mammalian

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&lt;400&gt; 57

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Gly Pro Ala Ala Thr Leu Ala Gly Pro Ala Lys Ser Pro Tyr Gln Leu  
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Val Leu Gln His Ser Arg Leu Arg Gly Arg Gln His Gly Pro Asn Val  
                   35                    40                    45

Cys Ala Val Gln Lys Val Ile Gly Thr Asn Arg Lys Tyr Phe Thr Asn  
                   50                    55                    60

Cys Lys Gln Trp Tyr Gln Arg Lys Ile Cys Gly Lys Ser Thr Val Ile  
 65                    70                    75                    80

Ser Tyr Glu Cys Cys Pro Gly Tyr Glu Lys Val Pro Gly Glu Lys Gly  
                   85                    90                    95

Cys Pro Ala Ala Leu Pro Leu Ser Asn Leu Tyr Glu Thr Leu Gly Val  
                   100                    105                    110

Val Gly Ser Thr Thr Thr Gln Leu Tyr Thr Asp Arg Thr Glu Lys Leu  
                   115                    120                    125

Arg Pro Glu Met Glu Gly Pro Gly Ser Phe Thr Ile Phe Ala Pro Ser  
                   130                    135                    140

Asn Glu Ala Trp Ala Ser Leu Pro Ala Glu Val Leu Asp Ser Leu Val  
 145                    150                    155                    160

Ser Asn Val Asn Ile Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val  
                   165                    170                    175

Gly Arg Arg Val Leu Thr Asp Glu Leu Lys His Gly Met Thr Leu Thr  
                   180                    185                    190



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Ser Met Tyr Gln Asn Ser Asn Ile Gln Ile His His Tyr Pro Asn Gly  
195 200 205

Ile Val Thr Val Asn Cys Ala Arg Leu Leu Lys Ala Asp His His Ala  
210 215 220

Thr Asn Gly Val Val His Leu Ile Asp Lys Val Ile Ser Thr Ile Thr  
225 230 235 240

Asn Asn Ile Gln Gln Ile Ile Glu Ile Glu Asp Thr Phe Glu Thr Leu  
245 250 255

Arg Ala Ala Val Ala Ala Ser Gly Leu Asn Thr Met Leu Glu Gly Asn  
260 265 270

Gly Gln Tyr Thr Leu Leu Ala Pro Thr Asn Glu Ala Phe Glu Lys Ile  
275 280 285

Pro Ser Glu Thr Leu Asn Arg Ile Leu Gly Asp Pro Glu Ala Leu Arg  
290 295 300

Asp Leu Leu Asn Asn His Ile Leu Lys Ser Ala Met Cys Ala Glu Ala  
305 310 315 320

Ile Val Ala Gly Leu Ser Val Glu Thr Leu Glu Gly Thr Thr Leu Glu  
325 330 335

Val Gly Cys Ser Gly Asp Met Leu Thr Ile Asn Gly Lys Ala Ile Ile  
340 345 350

Ser Asn Lys Asp Ile Leu Ala Thr Asn Gly Val Ile His Tyr Ile Asp  
355 360 365

Glu Leu Leu Ile Pro Asp Ser Ala Lys Thr Leu Phe Glu Leu Ala Ala  
370 375 380

Glu Ser Asp Val Ser Thr Ala Ile Asp Leu Phe Arg Gln Ala Gly Leu

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385		390		395		400									
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Asn	Ser	Val	Phe	Lys	Asp	Gly	Thr	Pro	Pro	Ile	Asp	Ala	His	Thr	Arg
		420						425					430		
Asn	Leu	Leu	Arg	Asn	His	Ile	Ile	Lys	Asp	Gln	Leu	Ala	Ser	Lys	Tyr
		435						440					445		
Leu	Tyr	His	Gly	Gln	Thr	Leu	Glu	Thr	Leu	Gly	Gly	Lys	Lys	Leu	Arg
	450						455					460			
Val	Phe	Val	Tyr	Arg	Asn	Ser	Leu	Cys	Ile	Glu	Asn	Ser	Cys	Ile	Ala
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Val	Leu	Thr	Pro	Pro	Met	Gly	Thr	Val	Met	Asp	Val	Leu	Lys	Gly	Asp
			500					505					510		
Asn	Arg	Phe	Ser	Met	Leu	Val	Ala	Ala	Ile	Gln	Ser	Ala	Gly	Leu	Thr
		515						520					525		
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Asp	Ala	Lys	Glu	Leu	Ala	Asn	Ile	Leu	Lys	Tyr	His	Ile	Gly	Asp	Glu
			565						570					575	
Ile	Leu	Val	Ser	Gly	Gly	Ile	Gly	Ala	Leu	Val	Arg	Leu	Lys	Ser	Leu
			580					585						590	

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Gln Gly Asp Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val  
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Asn Lys Glu Pro Val Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val  
                   610                                615                                620

Val His Val Ile Thr Asn Val Leu Gln Pro Pro Ala Asn Arg Pro Gln  
                   625                                630                                635                                640

Glu Arg Gly Asp Glu Leu Ala Asp Ser Ala Leu Glu Ile Phe Lys Gln  
                                 645                                650                                655

Ala Ser Ala Phe Ser Arg Ala Ser Gln Arg Ser Val Arg Leu Ala Pro  
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Val Tyr Gln Lys Leu Leu Glu Arg Met Lys His  
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<211> 380

<212> DNA

<213> mammalian

<400> 58

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agcgagccac tgccctttgt caaaatgtga tgcacataag caggtatccc agcatgaaat 360

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- 72 -

&lt;210&gt; 59

&lt;211&gt; 2273

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 59

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- 74 -

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&lt;210&gt; 60

&lt;211&gt; 2840

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 60

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- 75 -

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&lt;210&gt; 61

&lt;211&gt; 218

&lt;212&gt; PRT



- 77 -

&lt;213&gt; mammalian

&lt;400&gt; 61

Met Glu Lys Leu Val Ile Gln Leu Lys Glu Ser Phe Gly Gly Ser Ser  
1 5 10 15

Glu Ile Val Asp Gln Leu Glu Val Glu Ile Arg Asn Met Thr Leu Leu  
20 25 30

Val Glu Lys Leu Glu Thr Leu Asp Lys Asn Asn Val Leu Ala Ile Arg  
35 40 45

Arg Glu Ile Val Ala Leu Lys Thr Lys Leu Lys Glu Cys Glu Ala Ser  
50 55 60

Lys Asp Gln Asn Thr Pro Val Val His Pro Pro Pro Thr Pro Gly Ser  
65 70 75 80

Cys Gly His Gly Gly Val Val Asn Ile Ser Lys Pro Ser Val Val Gln  
85 90 95

Leu Asn Trp Arg Gly Phe Ser Tyr Leu Tyr Gly Ala Trp Gly Arg Asp  
100 105 110

Tyr Ser Pro Gln His Pro Asn Lys Gly Leu Tyr Trp Val Ala Pro Leu  
115 120 125

Asn Thr Asp Gly Arg Leu Leu Glu Tyr Tyr Ile Leu Tyr Asn Thr Leu  
130 135 140

Asp Asp Leu Leu Leu Tyr Ile Asn Ala Arg Glu Leu Arg Ile Thr Tyr  
145 150 155 160

Gly Gln Gly Ser Gly Thr Ala Val Tyr Asn Asn Asn Met Tyr Val Asn  
165 170 175

Met Tyr Asn Thr Gly Asn Ile Ala Arg Val Asn Leu Thr Thr Asn Thr

- 78 -

	180		185		190										
Ile	Ala	Val	Thr	Gln	Thr	Leu	Pro	Asn	Ala	Ala	Tyr	Asn	Asn	Arg	Phe
	195						200					205			
Ser	Tyr	Ala	Asn	Val	Ala	Trp	Gln	Ala	Tyr						
	210						215								

&lt;210&gt; 62

&lt;211&gt; 439

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 62

gggtgggtctg aatctagcac catgacggaa ctagagacag ccatgggcat gatcatagac 60

gtcttttccc gatattcggg cagcgagggc agcacgcaga ccctgaccaa gggggagctc 120

aaggtgctga tggagaagga gctaccaggc ttctgcaga gtggaaaaga caaggatgcc 180

gtggataaat tgctcaagga cctggacgcc aatggagatg ccaggtgga cttcagtga 240

ttcatcgtgt tcgtggctgc aatcacgtct gcctgtcaca agtactttga gaaggcagga 300

ctcaaataat gccctggaga tgtcacagat tcctgcagag ccatgggtccc aggettccca 360

aaagtgtttg ttggcaatta ttcccctagg ctgagcctgc tcatgtacct ctgattaata 420

aatgcttatg aaaaaaaaaa 439

&lt;210&gt; 63

&lt;211&gt; 95

&lt;212&gt; PRT

&lt;213&gt; mammalian

&lt;400&gt; 63

- 79 -

Met Thr Glu Leu Glu Thr Ala Met Gly Met Ile Ile Asp Val Phe Ser  
 1 5 10 15

Arg Tyr Ser Gly Ser Glu Gly Ser Thr Gln Thr Leu Thr Lys Gly Glu  
 20 25 30

Leu Lys Val Leu Met Glu Lys Glu Leu Pro Gly Phe Leu Gln Ser Gly  
 35 40 45

Lys Asp Lys Asp Ala Val Asp Lys Leu Leu Lys Asp Leu Asp Ala Asn  
 50 55 60

Gly Asp Ala Gln Val Asp Phe Ser Glu Phe Ile Val Phe Val Ala Ala  
 65 70 75 80

Ile Thr Ser Ala Cys His Lys Tyr Phe Glu Lys Ala Gly Leu Lys  
 85 90 95

<210> 64

<211> 358

<212> DNA

<213> mammalian

<400> 64

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tccttccttc gagagcttcg aagatgactg cagccagtct ctctgcctca ataagccaac 120

catgtctttc aaggattaca tccaagagag gagtgacccg gtggagcaag gcaaaccagt 180

tatacctgca gctgtgctgg ccggcttcac aggaagtgga cctattcagc ttgtggcagt 240

ttctcctgga gcttgctatc agacaaatcc tgccagtcac tcatcagctg gactggagac 300

ggatgggagt ttaagctcgc cgaccccgat gaggtggccc gccggtgggg aaagagga 358

<210> 65

- 80 -

&lt;211&gt; 207

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 65

actntggaca atctccacct tagctattcc caggggaaccc tngggggcaa ctgacatccc 60  
tccaagatgt tctcctgatg tagcttgaga tataaaggaa aggccctgca caggtggctg 120  
tttcttgtct gttatgtcag aggaacagtc ctgttcagaa aggggctctt ctgagcagaa 180  
atgnntaata aactttgtgc tgatctg 207

&lt;210&gt; 66

&lt;211&gt; 4375

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 66

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ctcaectggt cttgcggctg tggccaccgc cggccagggg tgtggagggc gtgctgccgg 120  
agacgtccgc cgggctctgc agttccgcgc ggggtcgggc agctatggag ccgcggccca 180  
cggcgcctc ctccggcgcc ccgggactgg ccggggtcgg ggagacgcgc tcagccgctg 240  
cgctggccgc agccaggggtg gaactgcccgc gcacggctgt gccctcgggtg ccggaggatg 300  
ctgcgcccgc gagccgggac ggcggcgggg tccgcgatga gggccccgcg gcggccgggg 360

- 81 -

acgggctggg	cagacccttg	gggcccaccc	cgagccagag	ccgtttccag	gtggacctgg	420
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cggctggtgc	tggggcgggg	gccaagcaga	ccccgcgga	cggggaagcc	agcggcgaga	540
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tccacgacga	gctggaaaag	gaaccttttg	aggatggctt	tgcaaattgg	gaagaaagta	960
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ctggaatgga	gtgggaagca	aaagctcaga	ttgttccttt	ggtgaccta	cttcttgcta	1500

- 82 -

ttggtgattt cgtcatagga acatttatcc cactggagag caagaagcca aaagggtttt 1560

ttggttataa atctgaaata tttaatgaga actttgggcc cgattttcga gaggaagaga 1620

ctttcttttc tgtatttgcc atcttttttc ctgctgcaac tgggtattctg gctggagcaa 1680

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gagatgccac tggaaacgtt aatgacacta tcgtaacaga gctaacaaac tgtacttctg 1860

cagcctgcaa attaaacttt gatttttcat cttgtgaaag cagtccttgt tcctatggcc 1920

taatgaacaa cttccaggta atgagtatgg tgtcaggatt tacaccacta atttctgcag 1980

gtatattttc agccactctt tcttcagcat tagcatccct agtgagtgtt cccaaaatat 2040

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ggaaaaataa tgaacctctt cgtggctaca tcttaacatt ctttaattgca cttggattca 2160

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atcttggtca tgatttcaca aaaaatgttg gtttgatgat ctgtggccat gtacatatgg 2640

- 83 -

gtcctcgaag acaagccatg aaagagatgt ccatcgatca agccaaatat cagcgatggc 2700

ttattaagaa caaaatgaag gcattttatg ctccagtaca tgcagatgac ttgagagaag 2760

gtgcacagta tttgatgcag gctgctggtc ttggtcgtat gaagccaaac acacttgtcc 2820

ttggatttaa gaaagattgg ttgcaagcag atatgaggga tgtggatatg tatataaact 2880

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gcaccaagga tgtggtagta agtgtggaat atagtaaaaa gtccgattta gatacttcca 3060

aaccactcag tgaaaaacca attacacaca aagttgagga agaggatggc aagactgcaa 3120

ctcaaccact gttgaaaaaa gaatccaaag gccctattgt gcctttaaat gtagctgacc 3180

aaaagcttct tgaagctagt acacagtttc agaaaaaaca aggaaagaat actattgatg 3240

tctggtggct ttttgatgat ggaggtttga ccttattgat accttacctt ctgacgacca 3300

agaaaaaatg gaaagactgt aagatcagag tattcattgg tggaaagata aacagaatag 3360

accatgaccg gagagcgatg gctactttgc ttagcaagtt ccggatagac ttttctgata 3420

tcatggttct aggagatatc aataccaaac caaagaaaga aaatattata gcttttgagg 3480

aaatcattga gccatacaga cttcatgaag atgataaaga gcaagatatt gcagataaaa 3540

tgaagaaga tgaaccatgg cgaataacag ataatgagct tgaactttat aagaccaaga 3600

cataccggca gatcaggtta aatgagttat taaaggaaca ttcaagcaca gctaattata 3660

ttgtcatgag tctcccagtt gcacgaaaag gtgctgtgtc tagtgctctc tacatggcat 3720

ggttagaagc tctatctaag gacctaccac caatcctcct agttcgtggg aatcatcaga 3780

- 84 -

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 tcagtgccta gtgtagtaac ctgaaatctt caatgacaca ttaacatcac aatggcgaat 3900  
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 tgtcttcttc cattgaccat ttagtgttga gtactgtatg tgttttgtta attctataaa 4320  
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<210> 67  
 <211> 1212  
 <212> PRT  
 <213> mammalian

<400> 67

Met Glu Pro Arg Pro Thr Ala Pro Ser Ser Gly Ala Pro Gly Leu Ala  
 1 5 10 15

Gly Val Gly Glu Thr Pro Ser Ala Ala Ala Leu Ala Ala Ala Arg Val  
 20 25 30

Glu Leu Pro Gly Thr Ala Val Pro Ser Val Pro Glu Asp Ala Ala Pro  
 35 40 45

Ala Ser Arg Asp Gly Gly Gly Val Arg Asp Glu Gly Pro Ala Ala Ala



- 85 -

50		55		60
Gly Asp Gly Leu Gly Arg Pro Leu Gly Pro Thr Pro Ser Gln Ser Arg				
65		70		75
				80
Phe Gln Val Asp Leu Val Ser Glu Asn Ala Gly Arg Ala Ala Ala Ala				
	85		90	95
Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gly Ala Gly Ala Gly				
	100		105	110
Ala Lys Gln Thr Pro Ala Asp Gly Glu Ala Ser Gly Glu Ser Glu Pro				
	115		120	125
Ala Lys Gly Ser Glu Glu Ala Lys Gly Arg Phe Arg Val Asn Phe Val				
	130		135	140
Asp Pro Ala Ala Ser Ser Ser Ala Glu Asp Ser Leu Ser Asp Ala Ala				
145		150		155
				160
Gly Val Gly Val Asp Gly Pro Asn Val Ser Phe Gln Asn Gly Gly Asp				
	165		170	175
Thr Val Leu Ser Glu Gly Ser Ser Leu His Ser Gly Gly Gly Gly Gly				
	180		185	190
Ser Gly His His Gln His Tyr Tyr Tyr Asp Thr His Thr Asn Thr Tyr				
	195		200	205
Tyr Leu Arg Thr Phe Gly His Asn Thr Met Asp Ala Val Pro Arg Ile				
	210		215	220
Asp His Tyr Arg His Thr Ala Ala Gln Leu Gly Glu Lys Leu Leu Arg				
225		230		235
				240
Pro Ser Leu Ala Glu Leu His Asp Glu Leu Glu Lys Glu Pro Phe Glu				
	245		250	255

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Asp Gly Phe Ala Asn Gly Glu Glu Ser Thr Pro Thr Arg Asp Ala Val  
 260 265 270

Val Thr Tyr Thr Ala Glu Ser Lys Gly Val Val Lys Phe Gly Trp Ile  
 275 280 285

Lys Gly Val Leu Val Arg Cys Met Leu Asn Ile Trp Gly Val Met Leu  
 290 295 300

Phe Ile Arg Leu Ser Trp Ile Val Gly Gln Ala Gly Ile Gly Leu Ser  
 305 310 315 320

Val Leu Val Ile Met Met Ala Thr Val Val Thr Thr Ile Thr Gly Leu  
 325 330 335

Ser Thr Ser Ala Ile Ala Thr Asn Gly Phe Val Arg Gly Gly Gly Ala  
 340 345 350

Tyr Tyr Leu Ile Ser Arg Ser Leu Gly Pro Glu Phe Gly Gly Ala Ile  
 355 360 365

Gly Leu Ile Phe Ala Phe Ala Asn Ala Val Ala Val Ala Met Tyr Val  
 370 375 380

Val Gly Phe Ala Glu Thr Val Val Glu Leu Leu Lys Glu His Ser Ile  
 385 390 395 400

Leu Met Ile Asp Glu Ile Asn Asp Ile Arg Ile Ile Gly Ala Ile Thr  
 405 410 415

Val Val Ile Leu Leu Gly Ile Ser Val Ala Gly Met Glu Trp Glu Ala  
 420 425 430

Lys Ala Gln Ile Val Leu Leu Val Ile Leu Leu Leu Ala Ile Gly Asp  
 435 440 445

Phe Val Ile Gly Thr Phe Ile Pro Leu Glu Ser Lys Lys Pro Lys Gly  
 450 455 460

- 87 -

Phe Phe Gly Tyr Lys Ser Glu Ile Phe Asn Glu Asn Phe Gly Pro Asp  
 465 470 475 480

Phe Arg Glu Glu Glu Thr Phe Phe Ser Val Phe Ala Ile Phe Phe Pro  
 485 490 495

Ala Ala Thr Gly Ile Leu Ala Gly Ala Asn Ile Ser Gly Asp Leu Ala  
 500 505 510

Asp Pro Gln Ser Ala Ile Pro Lys Gly Thr Leu Leu Ala Ile Leu Ile  
 515 520 525

Thr Thr Leu Val Tyr Val Gly Ile Ala Val Ser Val Gly Ser Cys Val  
 530 535 540

Val Arg Asp Ala Thr Gly Asn Val Asn Asp Thr Ile Val Thr Glu Leu  
 545 550 555 560

Thr Asn Cys Thr Ser Ala Ala Cys Lys Leu Asn Phe Asp Phe Ser Ser  
 565 570 575

Cys Glu Ser Ser Pro Cys Ser Tyr Gly Leu Met Asn Asn Phe Gln Val  
 580 585 590

Met Ser Met Val Ser Gly Phe Thr Pro Leu Ile Ser Ala Gly Ile Phe  
 595 600 605

Ser Ala Thr Leu Ser Ser Ala Leu Ala Ser Leu Val Ser Ala Pro Lys  
 610 615 620

Ile Phe Gln Ala Leu Cys Lys Asp Asn Ile Tyr Pro Ala Phe Gln Met  
 625 630 635 640

Phe Ala Lys Gly Tyr Gly Lys Asn Asn Glu Pro Leu Arg Gly Tyr Ile  
 645 650 655

Leu Thr Phe Leu Ile Ala Leu Gly Phe Ile Leu Ile Ala Glu Leu Asn

- 88 -

660	665	670
Val Ile Ala Pro Ile Ile Ser Asn Phe Phe Leu Ala Ser Tyr Ala Leu		
675	680	685
Ile Asn Phe Ser Val Phe His Ala Ser Leu Ala Lys Ser Pro Gly Trp		
690	695	700
Arg Pro Ala Phe Lys Tyr Tyr Asn Met Trp Ile Ser Leu Leu Gly Ala		
705	710	715 720
Ile Leu Cys Cys Ile Val Met Phe Val Ile Asn Trp Trp Ala Ala Leu		
725	730	735
Leu Thr Tyr Val Ile Val Leu Gly Leu Tyr Ile Tyr Val Thr Tyr Lys		
740	745	750
Lys Pro Asp Val Asn Trp Gly Ser Ser Thr Gln Ala Leu Thr Tyr Leu		
755	760	765
Asn Ala Leu Gln His Ser Ile Arg Leu Ser Gly Val Glu Asp His Val		
770	775	780
Lys Asn Phe Arg Pro Gln Cys Leu Val Met Thr Gly Ala Pro Asn Ser		
785	790	795 800
Arg Pro Ala Leu Leu His Leu Val His Asp Phe Thr Lys Asn Val Gly		
805	810	815
Leu Met Ile Cys Gly His Val His Met Gly Pro Arg Arg Gln Ala Met		
820	825	830
Lys Glu Met Ser Ile Asp Gln Ala Lys Tyr Gln Arg Trp Leu Ile Lys		
835	840	845
Asn Lys Met Lys Ala Phe Tyr Ala Pro Val His Ala Asp Asp Leu Arg		
850	855	860

- 89 -

Glu Gly Ala Gln Tyr Leu Met Gln Ala Ala Gly Leu Gly Arg Met Lys  
 865 870 875 880

Pro Asn Thr Leu Val Leu Gly Phe Lys Lys Asp Trp Leu Gln Ala Asp  
 885 890 895

Met Arg Asp Val Asp Met Tyr Ile Asn Leu Phe His Asp Ala Phe Asp  
 900 905 910

Ile Gln Tyr Gly Val Val Val Ile Arg Leu Lys Glu Gly Leu Asp Ile  
 915 920 925

Ser His Leu Gln Gly Gln Glu Glu Leu Leu Ser Ser Gln Glu Lys Ser  
 930 935 940

Pro Gly Thr Lys Asp Val Val Val Ser Val Glu Tyr Ser Lys Lys Ser  
 945 950 955 960

Asp Leu Asp Thr Ser Lys Pro Leu Ser Glu Lys Pro Ile Thr His Lys  
 965 970 975

Val Glu Glu Glu Asp Gly Lys Thr Ala Thr Gln Pro Leu Leu Lys Lys  
 980 985 990

Glu Ser Lys Gly Pro Ile Val Pro Leu Asn Val Ala Asp Gln Lys Leu  
 995 1000 1005

Leu Glu Ala Ser Thr Gln Phe Gln Lys Lys Gln Gly Lys Asn Thr  
 1010 1015 1020

Ile Asp Val Trp Trp Leu Phe Asp Asp Gly Gly Leu Thr Leu Leu  
 1025 1030 1035

Ile Pro Tyr Leu Leu Thr Thr Lys Lys Lys Trp Lys Asp Cys Lys  
 1040 1045 1050

Ile Arg Val Phe Ile Gly Gly Lys Ile Asn Arg Ile Asp His Asp  
 1055 1060 1065

- 90 -

Arg Arg Ala Met Ala Thr Leu Leu Ser Lys Phe Arg Ile Asp Phe  
1070 1075 1080

Ser Asp Ile Met Val Leu Gly Asp Ile Asn Thr Lys Pro Lys Lys  
1085 1090 1095

Glu Asn Ile Ile Ala Phe Glu Glu Ile Ile Glu Pro Tyr Arg Leu  
1100 1105 1110

His Glu Asp Asp Lys Glu Gln Asp Ile Ala Asp Lys Met Lys Glu  
1115 1120 1125

Asp Glu Pro Trp Arg Ile Thr Asp Asn Glu Leu Glu Leu Tyr Lys  
1130 1135 1140

Thr Lys Thr Tyr Arg Gln Ile Arg Leu Asn Glu Leu Leu Lys Glu  
1145 1150 1155

His Ser Ser Thr Ala Asn Ile Ile Val Met Ser Leu Pro Val Ala  
1160 1165 1170

Arg Lys Gly Ala Val Ser Ser Ala Leu Tyr Met Ala Trp Leu Glu  
1175 1180 1185

Ala Leu Ser Lys Asp Leu Pro Pro Ile Leu Leu Val Arg Gly Asn  
1190 1195 1200

His Gln Ser Val Leu Thr Phe Tyr Ser  
1205 1210

<210> 68

<211> 441

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

- 91 -

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 68

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agcggatnac aatttcacac aggagttgca ccatccgtta ccccgatccc ctnatcaagg      60

tgaatgatac cattcagatt gatttagaga ctggnaagat nctgattnna tcaagtttga      120

cattggttnt ttgngnatg ggggantggg agngctaac ntaggaagaa tnggtgtgat      180

naccaacaga agaganggga ccntggatnt ttggangtgg gttaanggng aaaanatgcn      240

aatgggnaan aggtttggcn anttngantt tnnaanattt ttggttnatn gggaangggg      300

aacaacaan ggattttttt tncngagga aaggggattn ngntnacaat nggtgaaan      360

ananaaaaaa atgggggnaa aaaaganggg ggaaaggggc ntgggggaaan gnaaattnng      420

angaataaaa atggggngga t                                              441

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&lt;210&gt; 69

&lt;211&gt; 258

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 69

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gctgctgctg ctgctgctgc tgctgctgct gctaaagttc cagcaaaaaa gatcaccgcc      60

gcgagtaaaa aggctccagc ccanaagggt cctgcccaga aagccacagg ccagaaagca      120

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- 92 -

gcgcctgctc caaaagctca gaagggtcaa aaagctccag ccanaaaagc acctgctcca 180  
naggcatctg gcaagaaagc ataagtggca atcataaaaa gtaatanagg ttctttttga 240  
cctgttaaaa aaaaaaaaaa 258

<210> 70  
<211> 240  
<212> DNA  
<213> mammalian

<400> 70  
ctgctgctgc tgctgctgct gctgctaaag ttccagcaaa aaagatcacc gccgcgagta 60  
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ctccaaaagc tcagaagggt caaaaagctc cagcccagaa agcacctgct ccaaaggcat 180  
ctggcaagaa agcataagtg gcaatcataa aaagtaataa aggttctttt tgacctgttg 240

<210> 71  
<211> 267  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 71  
aatgtaaagg gattngataa agaggtaaag gattcaaaaa ctacccatat agatattcca 60  
agaataagct cttcccttgg aaaaaagcca agtttgactt ctgaatccag cattcatact 120



- 93 -

attactcctt cagttgttaa cttcactagt ttatttagta ataagccttt tttaaaactg 180  
ggcgcagtat ctgcatcaga caaacacttg ccaagttgct gaaagcctaa gtactagttt 240  
gcagtccaaa ccattaataaa aaaaaaa 267

<210> 72  
<211> 482  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 72  
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tgtcgtctgg tccctgttca acaccctctt cttgaactgg tgctgtctgg gcttcatagc 180  
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ggcctatgcc tccaccgcca agtgcctgaa catctggggc ctgattctgg gcatcctcat 300  
gaccattgga ttcacctgtg tactgggtatt cggctctgtg acagtctacc atattatgtt 360  
acagataata caggaaaaac ggggttacta ntagccgcca tagcctgcaa cctttgcact 420  
cactgtgcaa tgctggccct gcacgctggg gctgttgccc tgccccttgg tctgcctag 480  
at 482

- 94 -

<210> 73  
<211> 521  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 73  
gcgttgggag ctctccctat ggtcgacctg caggcggccg cgaattccta gtgattagcg 60  
gataacaatt tcacacagga cgactccaag ttccatcata tttgagataa aggtttgaac 120  
atatgaattt tgcggggaca caaccatgca gttcataaca tttgacatgt cctatcagtg 180  
ctcacagaac ttgaatcagc ttttttaagt attacttatt tatttagaga tggtaacttg 240  
ctatgttgtc cagattggtc tcaaactcct ggactcaagt gatcctccta cctcagcctc 300  
ccaagtcact gggattatag acatgaacca cctcatctgg tttcaatcaa cttttttggt 360  
cttaccata aatataaatg gacagcacag gacaaccaga catttgagaa aaaccctagc 420  
aagagcaacc aaaaaaaaaa agccctatag ngagtogata aatcnattcc cgcggcgcga 480  
tggcggccgg aacatgcacg nggccattcn cntagggag t 521

<210> 74  
<211> 523  
<212> DNA  
<213> mammalin

<220>  
<221> misc\_feature

- 95 -

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 74

```

cgttgggagc tctccctatg gtcgacctgc aggcggccgc gaattcctag tgattagcgg      60
ataacaattt cacacaggac gactccaagc accagttccg gtggtacggg ggaataaccag      120
tgaaatagtt tggttctccc tgaagcatct gcatattgaa agaacgcttt cccactgtg      180
tgtcttctcc ccctcctcca gtaaaaacag tcccggtcgg gtgctgtggc tcgcgtctgt      240
aatcccagca ctttgggagg cggaggtggg cggatcacct aaggtcggga gttcgagacc      300
agcctggcca acatggtgga accccgtctc tgctaaaaat acaaaaaaat ttagccgtgc      360
ttggtggcac ctgtgatccc agctacttgg gaggctgagg cgggagaatc gcctgacctg      420
ggaactaagg caggagaatc cctggacctg gaggcaaagg ttgcagtggc caacgnacca      480
ttgnetctac ctggcacaca cnaactccgt ccaaaaaaaaa gcn                        523

```

&lt;210&gt; 75

&lt;211&gt; 534

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 75

```

gttgggagct ctcccatatg gtcgacctgc aggcggccgc gaattcctag tgattaaccc      60

```

- 96 -

ctcaagaccc gtttagaggc cccaaggggt taactagtta ctcgagtgcg gccgcaagct 120  
 tcagagagct aaattgagtc tatcattatg gcaaagtctg acccaaaatt ttaatttgta 180  
 attttagcat gtgtctcatg cactttgggg agcgtcaaac taaatctaca attgccagaa 240  
 gccttggtac agtttaaatgc acattaacta aaatgtgtac attttttagtg ttcattgataa 300  
 atgcagttat gaccttatta cacttttggc attctttaag aaagcacatt aagctttaat 360  
 ataagaaata tttagggttac acttgtgctc aagtaataat aaaacatttg tcttttttga 420  
 tctcatacat tctctctctca ggtatggcca tctcctgacg cttgagccac cgcttgaatc 480  
 ggatcccgac atacacctga ctggaancac gcttcatcaa ttccgcgccg cagg 534

&lt;210&gt; 76

&lt;211&gt; 520

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 76

ccaagagtgg agcattcttc ccatgattcc cctgacactt ggctgaaagc attttgcact 60  
 aatttgcttt gtgcccgttc agacaatcta aaaagaaagg atgggggggac aacaagtgtc 120  
 tattacacag aataaacagc ctctggcaaa tgaatacatt ttacacactt gtgcttttgg 180  
 agggatgggg tagtgatgag gggaagggga atggaggagg agaagtcaag gattagaggt 240  
 ctcttcagca tctcaggact gcctctctct ctctgtggtc acaggggtag gtttgggtccc 300

- 97 -

atggcagaca tgaaactcaa gatcagccct ggcgtatacg gggtgggagg ccagngctgc 360  
ctctgggtggc ccccccaacc tgcaattcat attttgaatg gggttaaagcc tcttggcaat 420  
acttttatcc tctaataaaa agattgaacn ctttccttg attatattta aatgttaccc 480  
atataaatat actgcctgag gggangggta accctcttat 520

&lt;210&gt; 77

&lt;211&gt; 524

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 77

gggtggcctcg agcaatctgg aggctgttgg aatatgaata gcggtaacag ctgggggtata 60  
tgagaaaata ttgactccta tctggccttc atcaactgac ctgaaaaagc ctcattgagat 120  
gctttttctt aatgtgattt tggtcagcct cactgttttt accttaattt caactgccca 180  
cacacttgac cgtgcagtca ggagtgactg gcttctcctt gtcctcattt atgcatgttt 240  
ggaggagctg attcctgaac tcataatttaa tctctactgc cagggaatg ctacattatt 300  
tttctaattg gaagtataat tagagtgatg ttggtagggg agaaaaagag ggagtccttg 360  
atgctttcag gttaatcaga gctatgggtg ctcaggcttg tctttctaag tgacatatct 420  
tatctaattc tcanatcagg gtttgaaacc ttgggggnct tttaaaattt aatccctcnt 480

- 98 -

tntttnggcc aaatgtccaa aaaaaggcta tatctttccc aatt 524

<210> 78

<211> 524

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

<400> 78

tttctctttc aggtaggaaa atggaggcta agaaaagtta atttgtccga gggccctctg 60

atgatagtga aactgggatg gaacctctgc ctgcttgctt ctgaggctctg ggctcctaac 120

tactgctcta ctgcctcgag ccaagagatt tacgccctat taagcaatth gtgtgcccga 180

taaattggaa gacacagcag ataagcaaac aactcaagca accaggctcag ttcctggagt 240

ttctgaattg ttgggaccaa ggggccgtgc agaggtaacc acagctggcg tagtgtggtt 300

gaggtagccc tattagcctt ttagttgctg ttactaattt atttctcagt ggtcaatgaa 360

ccaattgcc acaatcactt tgtgtatagg tcatgtccca tggctctgac ccaggttgct 420

gctcagagtt ggcatcgtgg ctaaaatatt actagaggctc aaaatatgtg tgtgtttgtg 480

gtgattagtc aagnatctaa agaattgaca acattttggc atat 524

<210> 79

<211> 198

<212> DNA

<213> mammalian

- 99 -

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 79

gctgctaaac aactaatgct cctggaggca aaaacccccg ccaggaaaag gagctggcgg 60

agaacagggg acanctggag attttacgtg ccaaatgcc aagaactcaa acacactcgg 120

atggcaaaat cgcagtggaa gttcataaat caattgtgaa tgaattaaaa agccaattac 180

agaaggaaaa aaaaaaaaaa 198

&lt;210&gt; 80

&lt;211&gt; 615

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 80

cctanggaaa anttttagtg atgtctttgt naaagtcacc nccagaatc taaaaatgct 60

gcgtatagtg gaaccttatg tgacctgggg atttccaaat ctgaagtctg tccgagaact 120

cattttgaaa cgtggacnag ccaaggtcaa naatangacc atccctctga cagacaatac 180

agtgattgan gagcacctgg ggaagtttgg ccgtcatttg cttggaagac ctcatcatg 240

aaattgcctt cccaggggaag catttccagg agatctcatg gttcttgtgc ctttccacc 300

- 100 -

tctcagtggc ccgtcatgct accaaaaata gagggggctt cctcaaggag atgggcacac 360  
 ctggctatcg ggggtgaactg catnancac ctcatccgtc anctnaacta aaccacaggtg 420  
 aggcagggct gaaaactgnc cttggggctga cttttgatag gccatgcctt gccactntac 480  
 aaagttcttt angcattnac tagtattnaa gaagntncct agannttggg aggaatagag 540  
 gaggcnggta caatngatng agacctgctg ngatattnaa ngcctgatta ngacatgggg 600  
 ctctgcatag cccta 615

&lt;210&gt; 81

&lt;211&gt; 252

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 81

catcnattaa tgggcaaaat naccagntna catcatantg acaggatcgt attacatata 60  
 nnantattaa ccttaaatgt aaataggcta antgccnaa ttaaaagaca cagactggca 120  
 aactggatta agagtcaaga cccatcagtg tgctgaattc aggaaacca tctcacatgc 180  
 agagacacac acaggctcaa aataaaggga tggaggaaga tctaccaagc aaatggaaag 240  
 caaaaaaaaa aa 252

&lt;210&gt; 82



- 101 -

&lt;211&gt; 522

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 82

```
atttcccctt gagttcaccc acancctttn anaggaatgc attacccatg accnatgctg      60
anaccccatg gggntntançã cnggacctan gaaagtctcn ngcagncaga tagcncatgg      120
tgtcnccaca caactagagc attctggaga ttgccatan agggatgtga ggggaccgtn      180
tanatctntc ttgcttatnt natgcnccta cattccttca gcctcctgga gttcctgata      240
aaangaagcc aggggtgtgga catttttttaa ctnttgattn tccannnnt tngggatcac      300
ttgtacaccc actctttctt ntntgcctaa ttccgnntct tntggaacaa ntantntgcc      360
catgtatgtn tgtntctctt aacacnggtc natgaaantn tgantnttgg cttgatgtnt      420
gttgcggtggc ctggaaccan ggagcaacac nctggncatn gttctgtgta ncngaaanta      480
tatttatgaa ncntgtgctt atcccantaa ngtcgctgtg gt                          522
```

&lt;210&gt; 83

&lt;211&gt; 488

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

- 102 -

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 83

```
aagaagagct aactatccta aatatatatg caccacaatac aggagcacc agattcataa      60
agcaagtcct tagagaccta caaagagact tanactccca cacaataata gtgggagact      120
ttaacacccc actgtcaaca ttanacagat cancganaca ganagttaac agggatatcc      180
nggaattgan ctcanctgtg gcaccangcg gacctaan acatctacag actctccacc      240
ccaaatcaac agaataatac tttttttcag caccacan cactatatc caaaattgac      300
cacatagtgt ggaagtann gctctcctcng caangtgtaa agagaacaga attttataac      360
aaacgtgtct ctcanaccac agtgcaatca anctagaact cnggattaag aaactcactn      420
aaaaccgtta nttgatggan actgaacacc ctgctctgat gactctgggt cttacgaagn      480
gaggcaaa                                         488
```

&lt;210&gt; 84

&lt;211&gt; 504

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 84

```
ntgagagaag gcatgggatt tttagcataa attcctgtta tgtgagtgct gtttgagtgc      60
tgaagttcct atcaatatct gttcctgcaa gtgatctctg taagaccctt tacatgctgg      120
```

- 103 -

tcttagttat tgttaaaatt gcaaggtttc ttcacaccct ctttgataag aagtgttttag 180  
ctggcagagc tttcnttgac ttctgagtct agtgtgggtt ggcccatgac agtgggaaga 240  
aatccaacat gttacatgga gaccttgat gtaaacaac tctgtagcct ttgaaagtgg 300  
aactgctttt tacagttaaa gggctgctaa atggcttgca gatgagatct tctggctcac 360  
cttgatcttc acatgaacc accgtgacct atctggattc ctaggacctg tagttccatt 420  
tggttatatt agtgccctcag gaatgtgtnc tactggcaag catctcagaa attncgctgn 480  
aggggtanat anaggaagaa ttag 504

<210> 85  
<211> 225  
<212> DNA  
<213> mammalian

<400> 85  
tgccctgtct ggcagtcagc ttcccagaca gactatagac tataaatatg tctccatctg 60  
cottaccaag tgttttctta ctacaatgct gaatgactgg aaagaagaac tgatatggct 120  
agttcagcta gctggtacag ataattcaaa actgctgttg gttttaattt tgtaacctgt 180  
ggcctgatct gtaaataaaa cttacatttt tcgaaaaaaaa aaaaa 225

<210> 86  
<211> 247  
<212> DNA  
<213> mammalian

<400> 86  
gttttttagga actaaggtgt ttctctaaac acaaaatggt gggtgaaact gggaacaact 60

- 104 -

ctcagaagct aatttatttg cttaaattgga aagtgtggga gccctaccct ctctttttgat 120  
 ctgccaagga tttcctctca gagctgttgc acagacagag attgtacttg gtaagatacc 180  
 aaacaagaca gatatggatc taaatttcta atgtgttcta tgggtttcaa ttccgaaaaa 240  
 aaaaaaa 247

<210> 87  
 <211> 231  
 <212> DNA  
 <213> mammalian

<400> 87  
 gctgtacatt gttgcttgag agtctgtaca tttacgtcca gatttgtatt tgcactgtca 60  
 gtatggcaaa tgagtgaaaa atgtttaata cactattgga ttttttattt cttttttttg 120  
 attcagctta taccgggct gaaaacctca atttatgttc atgacagtgg ggattttttt 180  
 aaatgtctac attctttcta ataaactgtt ggaagactta aaaaaaaaaa a 231

<210> 88  
 <211> 344  
 <212> DNA  
 <213> mammalian

<400> 88  
 atgcaaggat tgtgagtgac tctggggcct ctattgcaaa ttgttctagg gagaaatttg 60  
 cctgtcctgg tatcaagccc tggctggaag ccagagagag gggtacagaa agagattaag 120  
 gtgtcagtgc tggaggcaga agaggctatt gggcaatttg tttgcctggg tctaccgcac 180  
 acctgattta caccagctt gtgaaaacct taccacaggt aaaatgcaa tagttgttct 240

- 105 -

actagagtgg tcaacttttg actgatttat ctcctacatt tttcaaacct tatgtaatgt 300

cttgttttta taataaacag ttttggaatg ttaaaaaaaaa aaaa 344

<210> 89

<211> 355

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

<400> 89

gtggacatgt tgaagctttg agatctgagc aggaggcagt gatgtccctg gtctattcag 60

ggaaagatgt cagtgtgaaa tggtaaacad ccaattgaca ggatttagat tttgcttagt 120

ttttctgctt tttaatgttt ctatccccc tctcagtgtt ttctttatcc atcccagtga 180

tgccttattt gaaactgggc ttancntgca aaaagaatga agttggattt aggaactgtt 240

atatcattga gtggtgttga gagtgaagtt tcactancag ggaagtttcc ttgagcctaa 300

aataaaaaag aaaaaattna naaagaatca gtttttttaa attaaaaaaaa aaaaa 355

<210> 90

<211> 191

<212> DNA

<213> mammalian

<400> 90

ttttcccttt accagttctgt cctcaactgcc tcgcctacc atcctgtcac cagtgggacc 60

- 106 -

tcttttaaaac aagcagccaa ccattctttg atgtatccca ttcgctccat gttaacatcc 120  
aaaaccagcc tggatttcac acatggactt ctgattaata gtggcagggt gtgcatgtta 180  
aaaaaaaaa a 191

<210> 91  
<211> 336  
<212> DNA  
<213> mammalian  
  
<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 91  
tcagtaagg gcaaacagag gatcactgac tcaagatgtg gttttaatta atanaaatgg 60  
aggctgagt cantggctca cacctgtgat ccagcactt tgggaggcca aggcangagg 120  
actgcttgaa ccaggaggt caagaccagc ctggggaaca tgttgaaacc ctgtctcttg 180  
aaaaaataca aaaattagct aggtgtggtg gtgcacagcc tgtagtccca gatacttggg 240  
aggctgaggt gggaggatca cttgagcctg ggaggtanaa gcttgcatnc gagctatgat 300  
cacaccactg cactccagcc ctgtctcaaa naaaaa 336

<210> 92  
<211> 467  
<212> DNA  
<213> mammalian

- 107 -

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 92

gaagagctaa ctatcctaaa tatatatgca cccaatacag ggagcaccca gattcataaa 60

gcaagtcctn agagacctac aaagagactt agactccac acantaataa tgggagactt 120

taacacccca ctgtcaacat tagacagatc aacgagacag aaagttaaca aggataccca 180

ggaattgaac tcagctctgc accaagngga cctaatagac atctacagaa ctctccaccc 240

caaatcaaca gaatatacat ttttttcagc accacaccac acntattcca aaattgacca 300

catanttga agtaaagctc tcctcagcaa atgtaaaaga acagaaatta taacaaactg 360

tctctcagac ccagtgcac aaactagaac tcgggattaa gaactcctca aaccgctcac 420

tcntggaact gacacctggt ctgatgacnc tggggacata caaaaga 467

&lt;210&gt; 93

&lt;211&gt; 441

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 93

tcctttaatt taaaaaagag ttttaaataa ttatctatgt cgcctgtatt tcccttttga 60

gtgctgcaca acatgttaac atattagtgt aaaagcagat gaaacaacca cgtgtttctaa 120

agtctaggga ttgtgctata atccctatgt agttcaaaat taaccagaat tcttccatgt 180

gaaatggacc aaactcatat tattgttatg taaatacaga gttttaatgc agtatgacat 240

- 108 -

cccacagggg aaaagaatgt ctgtagtggg tgactgttat caaatatatt atagaataca 300  
 atgaacgggtg aacagactgg gtaacttggt tgagttccca tgacagattt gagacttgct 360  
 aataagcaaa tcatttttgt atttaaattt ttgactgatt tgaaaaacat cattaaatat 420  
 ctttaaaagt aaaaaaaaaa a 441

<210> 94  
 <211> 395  
 <212> DNA  
 <213> mammalian

<220>  
 <221> misc\_feature  
 <222> ()..()  
 <223> "n" is an unknown nucleotide

<400> 94  
 tctctgtgac cngacatgag aagggtgcc aatgggctgtt gggcgaccaa ggccttcccc 60  
 gagtcttcgt cctctatgag ctctcgcca tgatggtgaa gctgacggag aagcacaggt 120  
 ccttcaccca ctctctgaca ggtgtgtgag ccatcattgg gggcatgttc acagtggctg 180  
 gactcatcga ttctgtcatc taccactcag cagagccat ccagaagaaa attgatctag 240  
 ggaagacaac gtagtcaccc tcggtgcttc ctctgtctcc tctttctccc tggcctgtgg 300  
 ttgtcccca gcctctgcca cctccacct cctcggtcaa gcccagccc caggttgata 360  
 aatctattga ttgattgtga tagtaaaaaa aaaaa 395

<210> 95  
 <211> 350



- 109 -

<212> DNA

<213> mammalian

$\langle 220 \rangle$

```
<221> misc_feature
```

<222>    () . . ()

<223> "n" is an unknown nucleotide

<400> 95

atttcgaaaa aatccaaatt tcagcaaaat tatatnggtt gttttcagta cctctgaagg 60

tgctatatca agaattctca tgctactctt tgagaaaaca gattgcgttt ttacctagaa 120

aatcaactgc aaggcatttt tataacctta cccaagtaa aaaaaatata ttgaaatata 180

ctaataaatg cagactacat tacttgaaaa atggtaatac agaatgccct tttaatatattt 240

gaaaatatga atttttggta gaaataatgt aaaataaagc ttctggtaag ccttaggcag 300

ttaaatttac atcagtgtaa agtaggatga aaatctgtaa aaaaaaaaaa 350

<210> 96

<211> 251

<212> DNA

<213> mammalian

<400> 96

cctcatgtcc tcacctgttt acccccatgt ccacgtcct caccacctgc ttctttgttt 60

gattaccagt aaatagtatg gggtcccaga gctcagggcc ttcgcagcct ccatactagc 120

gttggctccc tggaccacc gtatgtactc ttaacttgtc ttgtctcatt ccttttgact 180

ctgtcggact tcatagccac cacgacctgg tgttgagtct tgatcacccc aacaaacagt 240

aaaaaaaaaa a 251

- 110 -

<210> 97  
<211> 478  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 97  
cctgaaaact cttttgcatt aagggatcat tgcaagagca gcgtgactga cattatgaag 60  
gcctgtactg aagacagcaa gctgttagta cagaccagat gctttcttgg caggctcgtt 120  
gtacctcttg gaaaacctca atgcaagata gtgtttcagt gctggcatat tttggaattc 180  
tgcacattca tggagtgcaa taatacttgt atagctttcc ccacctccca caaaatcacc 240  
cagttaatgt gtgtgtgtgt gtttttttta nggtaaacat tactacttgt aacttttttt 300  
cttantcata tttgaaaaag tanaaaattg agttacaatt tgattttttt tccaaagatg 360  
tcttgtaaaa tctgttgggc ttttatatga atatttggtt ttntagttaa aaattgacct 420  
ttgggaatcc agttgaagtc ccaaanccta aaagagttat caacatctta tttggcct 478

<210> 98  
<211> 479  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature

- 111 -

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 98

tcagaacgcg tcagtaaaca aaacagattt gaatttcctt tccttcatgg aacttaagtt 60

ctagtggtag gaggaggaca gaaaacagta aataactaga ttttgaattg tgtagcaga 120

tgataactga tgtgggaact tagcaggtag aaggcaacac aaggtaaag aagccgggga 180

ttccaccttg actagggagc tcagggcagg cctcacttga gaaagcacca cttgcatgaa 240

ggaggtggga aaagccttca cctgggggaa gaggcttcca ggcagaggga acagccaatg 300

ccaaggccct aatgccttgg ccacttgcct ggtatgtcca aagaacaagg agacctgtgc 360

cagcggctgc agctgagtga gccagggatg tangaatgtg tanagggtgg ttctgggagg 420

tgacgacgga gaaaagtgcg caaagtcact agtggctctc tggattgggt cngggcctt 479

&lt;210&gt; 99

&lt;211&gt; 486

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 99

ccgcaaagct ccttagngac ttctaattctt atttggtaaa acaataaaac aaaacagAAC 60

ataaccttgt atcccatcta tccagatgg agaagttctt gaaaattgtc cagcccactt 120

- 112 -

ctgcatttct actttcaata tactttccga gtatattgtc tcatatatatt tgaaggagag 180  
agtaaagtct gtatgtccta aatagtgggt cccaccgaac cagttaaaaa aatttggagg 240  
acgtgacatg tgtttgccaa catttaaatt tttccaagta agagtattat angtagagaa 300  
agtgaggaaa atcgagagag agatagagag accgagagac acgaaaatca ncaaccagcc 360  
cctattgccca tgattttctta anaggaaaagt tttatgttna aaaaaaatta gtggggggaca 420  
taccttagaa tgaagggcng atcttcnata cagaaaatgt gtgcaaaacc tnatgacttg 480  
ntnttt 486

&lt;210&gt; 100

&lt;211&gt; 479

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 100

ctctaagtac ttcccttacc cactcagtgt ggtgatggca cctccctgaa tctcctgaca 60  
aatgcgaaca ggaactccta ttcacagag ccaacttgat aactganaag attcctctct 120  
catttatcag cctttgatta tctttttgtg tctcttacta tttgcgctta gcaagaaaaa 180  
taaagagggt tgaacaatta agaagtaaca aagagctcat agttcacaaa gagcaagtca 240  
aaggatgtct ggaatatattg aacatacaac tgcctttggc atgagggtggc ctacatacat 300  
tctcaggggc aggataggct tggagagctg atcaagctgc ccgggaaanc tgaagcaaag 360

- 113 -

gccgggnggt ggaatnaatg tcncttcaac tgagacttta aaccttgggc tttanctggg 420

cgcagtanct acncctgtaa tccancactt tnggaggtaa gtcnggaaat ccttncgga 479

<210> 101

<211> 408

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

<400> 101

ttttctntgg cncgggtcta angttggtaa gcaccttaat ggattggagg gtgtgccaca 60

ggatgaattc cctacctgan ccacttcttg gtgactcagc tttccatgct gtgaaatggg 120

gagaaatgga aaaattgcct ttgctgaggg atatgtggag aatttccatt tttgctctaa 180

gaaaaccaga ggaaacgtcc ccttgagaat tatgtgtgcc ttcagtctcc aacccttct 240

ctccactccc attttctccc ctgttttata aagcttcctg gcaagtcatt gtggctcacg 300

cctgtaatcc cagcactttg ggaggctgag gcaggaggat cccttgagga taagagttga 360

agatcagtct ggtcaacata gtgagattct atctctaaaa aaaaaaaaa 408

<210> 102

<211> 326

<212> DNA

<213> mammalian

- 114 -

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 102

```
gggcttgtn t gtagtccca tagctagcag atggctggag ccaagactga ggctcgttct      60
tcaatgctga gccagggctc cttccgctgc accacaagaa cgctagacca ctgccacca      120
gccttctcat tccctcttcc tccattctaa tcatttctag ctggctggcc tccacagagc      180
ataggaaaac agccagggcc gggcacggtg gctcatgcct gtaatctcac actctgggag      240
gccgagccgg gtggataacc tgaggtcagg aattcgagac cagcctggcc aacatggtaa      300
aaccctatct ctactaaaaa aaaaaa      326
```

&lt;210&gt; 103

&lt;211&gt; 470

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 103

```
gctctnnttt cttcttgccc gtgatgggaa gcccttgag gattttaagc aaaaatgtgc      60
cacgattcat cgctggtggg tctgtggaag atggattggg ataaggtggg gagtaggctg      120
gtgggtgggt cttgcatagt cttcatgaa atagtcgtca accttagtgg tagtaaagat      180
```

- 115 -

```

tttcattctt tccaatgtgt ttcacatttt ctaggaactg catgttttgg ggacatgata      240
caattgagga aaataagtat tcttttccga taaagtaatg taaggcctca ttaattaaat      300
aaacgcttta tgagagcaaa aagacttgga aagaattaac ctttggtctgg gcttggtggc      360
tcacgcctgt aatcccagca ctttgggagg ccaaggcgga tggatcacct gaggtcagga      420
gtcaagacag cctgccacca tggagaacct ggctctctaa aaaaaaaaaa      470

```

&lt;210&gt; 104

&lt;211&gt; 454

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 104

```

tggttccctc nggccgtggt gctggcaaaa atgtgtgatt ctctgctgct gggtcagaag      60
gccaaagagtt cagatgcctt gtcccanctg tgcccttgac tttcacaatg acctgtcanc      120
agttattttaa cccagggtcaa gccgagtggc aaaatgccga acaccagggt ctttatagat      180
cttantcctn tgcagtaaag cggggaaatg cctccatatg aagttttacg tacatogtgt      240
ctccttacac ttnttatect ttcccagngt catgcctttg gggtaaaaaat tatttgtgag      300
agttcaatta anaattattg ntgtcagtct gctgtgggct catgcctgta atcccagcac      360
tttgggagggc caangtggga gggatcactt gagtgcagga gttaagacta gccagggcaa      420
catagtgaga tcctgtctct cctaaaaaaaa aaaa      454

```

- 116 -

<210> 105  
<211> 240  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 105  
gggttnatta ctcccgatat agcaacaaag cctgggcaac ctttggtcct ggattctatt 60  
tctcctaaaa aatcttttaa gactcgaaaa caaaagtctt cttcaaaggc tgaatacaat 120  
ttaactgcat gcaaattgct cctttgcaag aggaaatata gttcacaaat aatgcttaaa 180  
agacatatgc aaattgtnc aagataact ctttctggaa caaactctaa aaaaaaaaaa 240

<210> 106  
<211> 240  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 106  
gggtactttg gaattgtccc atattaatca gagatggcaa aagaaaaagt tctcatatta 60  
ccaggttgat tttgtgtctc atttcaaatt ttaatttaaa attatggntt tcatttttgt 120



- 117 -

ttaccttaaa gngangctta aaagtggcat gtanttagga cacttaggtt tgttgaaaga 180

atattcgaca tttgnataaa agaatttgcg ataaatntat ccaggngctc accaaagaaa 240

<210> 107

<211> 419

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

<400> 107

gtgaaccttc aaacatcgct aagcatttga tctggccatg tatatggtag ctgtgtttta 60

atttgagaat cttgagggtg gagccacaaa tttcaattct tacatttcca ttgcaaagt 120

gactagagaa aaagaaatca gcttaaata ggtattaagt aatgtttaga gtcgtaggta 180

ttaactanaa tataaatcct tagaaattgt ctttatacct tcaaaaatta tactatgcat 240

ttatcataga aatgtgatta caaagaagtc tgactacat gtctttaaac atatggcatc 300

tctcaacttt tcttccttat ggggctacat ttgttcattt ccagcagtag cataaactta 360

cgggggacat ggtagacttg ctctaaataa aatttttaaa tgtttactaa aaaaaaaaaa 419

<210> 108

<211> 509

<212> DNA

<213> mammalian

- 118 -

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 108

tgcagnggct ccaataacttn cattttgctc cccattgtga ttctcatcct ggctttgagt 60

tttgcctccc tttgtgtcct gtggtggatc ctccctccag gcagactggc ctgcttgctc 120

tctggaacat gttgtttgtt tctaccactg tacttttgct tctctcatt cccacagtg 180

gaccgtnttt ttttcatcat tgcttgcca aatcccattt gtcttttaa ggaanaaaa 240

gcctttgttg atgaagtgtt ttctgggggc agagcacttt catgtatcat ctactgagt 300

cactacaatc ctactctgt gaggtgatga tatattagcc ccattacaca agaggagaag 360

gggctcagaa aagttcttaa gctcacctga agtcacacag ctaaaagtgg caaagatggg 420

gctttggatt tttaatcaa gtcagtcttg acagaaaagc ccatggcctg ataccatata 480

acaagttggc tctcttacat tctccttc 509

&lt;210&gt; 109

&lt;211&gt; 505

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 109

- 119 -

gcngnttgct aggcncgtga gcatanattt agagtccagn tgtgggggtgg tggngagatg 60

cagccaaccc agngacggcc tataccnngc accacttagt tgnatactca gantccaggt 120

gtggccttat agctgtgacc ctgctgaat ctgccagtta gcatctagag ctcatcatag 180

cctggacaca ttccnnttca gtacgagagg agatttcaga gtctgtgttt caaaattaac 240

acttcaactg ctccaagaca ggagccaatg ccagtcttct ctggacattc atgagaagac 300

atgaaaaatg gccacaccct ggctccatcc tgaatgcttg tctctgaggc caaggcgcaa 360

tctgcaagtg gcacngtggt cccgcgagct ttaggttggg aaaagttgct tttgnttctc 420

tctttctctt cctacttgtc tcatgtgna gggacctgga aaggaacttg ctgacaggat 480

ttaaacagna aatccttnca naatg 505

&lt;210&gt; 110

&lt;211&gt; 461

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 110

taccaatgag gggtggttta ttatcaaacc tgaatagctg tggtttctcc agtanatatt 60

ntcttctact gaacatggag ccattattaa nagttgngtg ttttttatta tgtacatttg 120

tatatttttt ngcttggttg angtnctatt tttctaatan ntnctttta gtncttaaa 180

gntgngatac tatatttaga ttctgatget ancntgcaaa tcaggtnngt ctctgctgg 240

- 120 -

gtctctcctg ctttaattnt actttaagga cangtgtant nagtcagtcc accacnnttc 300  
aaaaaatgtg aaactgccct gcctcccctt ttgctgaca aactgtgtg cattgaccac 360  
ttcctaccat nctttatgct gnaaaatcaa acccttttgg gggacnttat ctcatgcttc 420  
tgcgattcca aanaactcta tggctaccaa aaaaaaaaaa a 461

<210> 111  
<211> 200  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 111  
gcnggtngag tntaaatgat ggatattgac cagacctgct tggacggaga ccgcatatt 60  
atctgttctc ttcgttccaa aacagncttc acttgtctca gaatttgatg gacacatact 120  
gtgatgagca ggagcttcag atgcactctt tacacattnt gttgaaataa acctctacat 180  
ttgtnaaana aaaaaaaaaa 200

<210> 112  
<211> 452  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature

- 121 -

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 112

```

ctgcncggta gacattntag atggccgggtg agagctcttt gaaaatgaaa acattctgct      60
atttgaatgc aaagtgttct tctttgcctg tgatgtttcc taatctgtga actcatactg      120
gacctcgaag ctgtctatta acaaaaatag caaagtggct gggcangng gctcatgcct      180
gtantcctag cactttgana ngcttnnggg cgnggatca cttgaggcca ggagttnat      240
accagcctgg ccaatatgtg aaaccccatc tctactaaaa atacaaaaat taccgccgtg      300
tggtggngtc tgectgtaag tcccaactac ttgggaggct gangcacacg aatcatttga      360
gctcaggagg cagaggttgn agtgagctna natggcnccc tgcactccac ctgnnggaca      420
canngaggct ctgtctgaaa aanaaaaaaa aa                                     452

```

&lt;210&gt; 113

&lt;211&gt; 195

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 113

```

gtataaatga nggatattcg accnanacct gcttgacgg anaccgcent attatctgnt      60
ctnttcgttc aaaaaacanc cttcacttgt ctnagaattt gatggacaca tactgtgatg      120

```

- 122 -

agcaggagct tcagatgcac tctttacaca ttatgttgaa ataaacctct acatttgtga 180

aanaaaaaaa aaaaa 195

<210> 114

<211> 508

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

<400> 114

gtataacttgt tnatnacatn ttcgtttcct gagcaataac gattatgaaa agtttaacnn 60

caatcccnaa ttaattngag cctgctgaag gagtttgacc accatttgct gnccgctgca 120

caagcctgca agctgncagn tgccttcagt gcctatacnc cgatcttcat gctcacagca 180

tgcgaatata cngtggcaca gtgtttattg tctgcagann gttcaaata ga ctgtcctcca 240

nanttgaaac acttncatnt gtgtgaancc aaagaagcct ttgagattgg cctnctcanc 300

aagagagatg atgagcctgt nactggaaaa caggatcttc acagctntgt caangctgnt 360

ttcggtctca ccacngtgcn cagaangntn catggggaga cagggactgt ccctgcagca 420

agtcaagcct ttggaatgaa gcaatgggga agctgncaat ttagccttnt tcanaagtnn 480

gacagagaac tttgtttaag attttggt 508

<210> 115

<211> 470

- 123 -

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 115

```
cgtgtttcgt tgtaatccgc acagacattt ccaaggnaaa ttctaaacag tcaccottcc      60
cttttgcatt cccccaaatc ttaagtgtat acataaaacc ctgggtacat attgttgtgg      120
taatagaagg gaattggtta aacagtacac ttgtttatgg aactttctgt ggccacctac      180
gaaagacaag ttaacanant tgtcatggag gctgttggtg ccagccaggg ccgctgcatt      240
ttgacaacat ttccaccctg gccactcagc acatttcatg gaggtcatgt cttttcactg      300
atactttttt gatagttttt atataacaaa atccttattc tatttataac ttaagatgat      360
aaggcactat aaattaatga cctaaaataa tatatttgtc tgttatcttt tgctatttct      420
acttcacttt aatttttagc tgtaaattgg taatggatct tacactntct      470
```

&lt;210&gt; 116

&lt;211&gt; 473

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

- 124 -

&lt;400&gt; 116

ttaanttatt gtcttgccctg ttgctaaca gttttatttc cgaggtaaaa tttgtctgat	60
ttttttctca ttactcattt ttattacca gatggcagtg aattggaata actatatttg	120
gaaatatgat ctctaaacta gcagtctctg aacattatct aagaggagta gaaatcttta	180
ctgtggttgc agatantaaa tgctattaaa agaaagagcg tcttgtaata cttggagcnt	240
tgacaacagc agcagataag gaattttcct gaatttttat ttctgctag tgtggggaca	300
ggagtgggtgg cttggatgtc aggggagagt tcgggtttgt tggcttcatt ttctgtetta	360
tgtggctgag gaagcggttg tctgtatgtt ttgatgcag tcatatgtcg tagtnttgga	420
cgttctcttg caggaggggc accgctngtc aatgagtgga accctcgatt tac	473

&lt;210&gt; 117

&lt;211&gt; 423

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 117

tgccanaggt cannttttga ggaaagccga aatgagaccc agataagaac cagactgtga	60
aggatcttgc acttgatatg aaaagagttt tgcctttttc ctgagggcat cagaaagtca	120
ttaaggtggg tgtgggtggc tacgcctgta atcccagcac tttgggaggc caaggccagt	180
ggatcaccgc aggtgaggan tttnaccag cctaataaac atggcgaacc ctatctctac	240



- 125 -

taaaaataca aaaagtagct tgggccgtgg tggcgccgtg cttgtagtgc cagctgttca 300  
 ggaggccgag gcaggagaat tgcttgaacc tggaatgtag aggttgcaag tgagccgaga 360  
 tcacaccgcg tgcactccca actgggcgac agancgagac tccgtctcaa aaaaaaaaaa 420  
 aaa 423

<210> 118  
 <211> 502  
 <212> DNA  
 <213> mammalian

<220>  
 <221> misc\_feature  
 <222> ()..()  
 <223> "n" is an unknown nucleotide

<400> 118  
 gtctgttttc cagggccccc aagcaagggt atggagatnt gccctgcaca agggggtaag 60  
 tagggctgaa atccagcccc actatctgcc ccaaagaaga ggctcctttc tctaattttc 120  
 ttaaagggtta gctagcccag aaatagcagt ggtggcatgg agttggagca aagtggacag 180  
 atttggcata tactttngtg gcagaatgga caggacttaa ttaattagag tgaagggttag 240  
 agagagaaaag atgtcataaa tgaataccag gtttctgctg ggaaccagtg aacagttgga 300  
 aatgccattt gtangagata ggatagatgg aaagatttga gggtaaagag tgtaagtttt 360  
 ccttttagaa gaatcaacta ctctgagata ataacctaac catcccagag ggatgatttg 420  
 catcttcttt gctgagagga cacctcatcc tcttccttct ctgggttana acttccccaa 480  
 aagngttggg gattgagggg ga 502

- 126 -

<210> 119  
<211> 275  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 119  
nacctttctg gggacgctgg cccagtgca ggccaacatc ccacccccta cctcctatgg 60  
gaccttgcaa gtcatccac aggctgcact gtcaggaaga ggaccctgtc cccagcact 120  
gggcttcacc tagaacttca gtggggggcca aggggtgctga gaaccagca atgaccagga 180  
agatacagtc actaacttca tctgtccccg tgccccttcc caggtcctgc ctccacaggt 240  
ttaaccaga acaataaacc tggctttgtc atcaa 275

<210> 120  
<211> 450  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 120  
aagactgtgt tgtcttttct\_accaagagta ttaacactac taagtctttc accttaactt 60

- 127 -

atgactcagg atttattcac gtctgcca ctctaggctc acaggaataa aatcaagtgc 120  
 tagacacact ggctgctact aaggcactag cctctgtage tgggtggtggc agcgtgggggt 180  
 gccgcccagc gtgctgggtc ctggcagtgc ctctgctgtg cttgcacatt gagccctttc 240  
 tcagtcagtg gagtatcaag ttgggccatc tgtctactga cctggccttc atgtaagcag 300  
 ctgtgggctg cgggcagaca ggagctcaga gatgcagcat gaggcgctta gaaaaacctg 360  
 gccatttgcg gcctctaatt ccccttttgc ttgccatatt gggcttgtat tacctccttg 420  
 aaanataaaa gaatacattt tcaaaaaaaaa 450

<210> 121  
 <211> 319  
 <212> DNA  
 <213> mammalian

<400> 121  
 tttagttgcc tgctgtggc tggtaaggta atgtcatgat tcctcctctc ttcagtgaga 60  
 ctgagcctga tgtgttaaca aatagggtgaa gaaagtcttg tgctgtattc ctaatcaaaa 120  
 gacttaatat attgaagtaa cactttttta gtaagcaaga taccttttta tttcaattca 180  
 cagaatggaa tttttttgtt tcatgtctca gatttatatt gtatttcttt tttaacactc 240  
 tacatttccc ttgtttttta actcatgcac atgtgctctt tgtacagttt taaaaagtgt 300  
 aataaaatct gacatgtca 319

<210> 122  
 <211> 449  
 <212> DNA

- 128 -

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 122

aaatagactt tttgcaatta ataatgtatc atatatacat tactctgtca ttagacattc 60

ttctacaata anagttttga catgtattgc caaatatcct cctaangttt atacagatta 120

cactatttaa tcatagttac attttcctaa agacttagtt ttggccaggt gcagtggctc 180

atgcctgtaa tctcagcact ttgggaggcc aaggcgntg gatctgctga ggacgggaat 240

tcaagaccag cctggccaac atggcaggaa accgtgtctc tactaaaaat acanaaaatt 300

agcatgngcg tggnggtggg tgccctgtaat ctcagctact cgggaggctg aggaggaaa 360

atcgcttgaa cccgggagat ggaggttgca atgagccaan gtcacaccat tgccttcann 420

ctgggcaaca agagtgaaaa tccatctca 449

&lt;210&gt; 123

&lt;211&gt; 289

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 123

- 129 -

agtgagactg agcctgatgt gttaacaaat aggtgaagaa agtcttgtgc tgtattccta 60  
atcaaaagac ttaatatatt gaagtaacac ttttttagta agcaagatac ctttttattt 120  
caattnncag aatggaattt ttttgtttca tgtctcagat ttattttgta tttctttttt 180  
aacactctac atttccttg tttttnnctc atgcacatgt gctctttgta cagttttaaa 240  
aagtgttaata aaatctgaca tgtcaatgtg gctagtttta tttttcttg 289

&lt;210&gt; 124

&lt;211&gt; 289

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 124

agtgagactg agcctgatgt gttaacaaat aggtgaagaa agtcttgtgc tgtattccta 60  
atcaaaagac ttaatatatt gaagtaacac ttttttagta agcaagatac ctttttattt 120  
caattnncag aatggaattt ttttgtttca tgtctcagat ttattttgta tttctttttt 180  
aacactctac atttccttg tttttnnctc atgcacatgt gctctttgta cagttttaaa 240  
aagtgttaata aaatctgaca tgtcaatgtg gctagtttta tttttcttg 289

&lt;210&gt; 125

&lt;211&gt; 273

&lt;212&gt; DNA

&lt;213&gt; mammalian

- 130 -

<400> 125  
acagtaagtc atgatccaga aataaaagaa cacacagctc tctattcaga catgtgggct 60  
tgtggacatg aagctggaga aacataaggt gataaagaaa atcctgatgg aattggtaaa 120  
agagcctaag gccacacaaa atcagagtgt tggctgagtg tggaggctca cgccgtgtaat 180  
cccggcactc tgggaggccg aggcaggtgg atcaccttga gatcgggagt ttgagaccag 240  
cctggccaac atggtgaaac cctgtctcta gta 273

<210> 126  
<211> 440  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 126  
ccccttcggc cctagcaaaa ntttttctctg naccctgggtg ccaaaaagat ggctgggtgta 60  
agggaccctg tgatacgtgc atgaggtgtg aactgactct gttgattatc cggactgtct 120  
cgagtgccat gccagcttca tgattccatg ctgtacttta cgcattgtgcc gcaactctgag 180  
taggcatttt gtgaaatttg ttattccttt tatgttgagg aacttccact tgaaatgctt 240  
gtatccttgg atgcctccct tagctctcct gctgtaagct tctcctttca gaacagacaa 300  
atagccttgt ctctattgtc aaaaggtagg ctcttttatt gttgtcatac ttttcttggc 360  
ttgagaatac tggggctggg caagatggct caatgcctat aatgcgagca ctttgggagg 420

- 131 -

ccgcagtgagg cagatacctc

440

&lt;210&gt; 127

&lt;211&gt; 435

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 127

cttgggcccc gcttattttt ctctgcccc tggcttataa tgaacaattt ggtacgaact 60

actgacctcc ttctaaaaca ctgagtgacc cttaaaaaaa ttcaacctta gttcccaatg 120

cccttggtga tatataaata atcattgcct tcgtttacta tttcctcaaa tccttaaaaa 180

tagaaagaat caaatatact tgccaaaaaa ttagccaat tgtaaaaaaa tcataagagg 240

accaaagag atagtacatg gaaagtcttt agaaaaagct caaaaatagg taagaatgaa 300

aaaaactatt gggcatcatt gtaatttatt attgttggat atcctgttgt taggattaaa 360

gtaaaaacat caaacattac aaagagacaa gttccctgca gactctttag ttcagtcagt 420

tgtactgata atttg 435

&lt;210&gt; 128

&lt;211&gt; 428

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

- 132 -

&lt;400&gt; 128

ttcgaaccac ctctccttcg ggaaagtgag agccaggctc agggcccega atgtcaccct 60  
gcatgggaca gggtgaaata aacactgagg aaagagaccc ttagaattga agtctgaggc 120  
acatccccac tgtcacctta gcctgtgcag tttcaatgtg accagcctga atgaentgag 180  
agaagccgag ggaaggcata aggggcatcc attattcagg ctcacctggt gatggtacca 240  
tcagcagaat ctttcaccaa cgggtgggtcc cagtatactc gagcagtcaa tttctctggc 300  
tctgccatct tctcacgtga gtggggacag cggatcttgg ggggatctat gtctgccaag 360  
atgaaaaatc aagtgctgac tcgtgggccc cttgctttcc ctggagggaa tccactgaag 420  
caatgcnc 428

&lt;210&gt; 129

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 129

cgaagataga gaaggtttct cacattggct ttggaagtca agcactcagt tcaggctgag 60  
agaatattct ctcttagttc ctgctctctg gagtggagta gttcagactc aacagaaaaa 120  
gctttgctgg gccaggcgca gtggctcaca cctctaatta gaacactttg ggaggccaag 180  
gcgggcagat cacctgaggt caggagtttg agaccagcct ggccaacatg gcgaaacccc 240  
atctctacta gaaatacaaa aaattagcca 270

&lt;210&gt; 130

&lt;211&gt; 190

&lt;212&gt; DNA



- 133 -

&lt;213&gt; mammalian

&lt;400&gt; 130

attttaaactg aatctaata caagaaaaca atcagatata tccagactga gagatattca 60  
atatgacatt ataaaaacta agattcttca atatgtcaac atcatgaaca ccacaaaatg 120  
gcagaaaaat tgttctagat taatggagac taaagagata taacacaagt gcaactcatg 180  
gtacctgaat 190

&lt;210&gt; 131

&lt;211&gt; 239

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 131

aggaaaaact tttgtcgaa ctccctctca gcaaatagcc ttttatcgaa aaactagaga 60  
aactctcatc aatgacttct cttcccattt taatacaata ttaattcaac aagaatctat 120  
cataccagaa cctccctaaa aagactaaaa gcacccccaa aacaattatt cctgaaaacn 180  
attnaaaaca atactagata atggataatg aaatgctgaa tggaatacac tcagatgca 239

&lt;210&gt; 132

&lt;211&gt; 265

&lt;212&gt; DNA

&lt;213&gt; mammalian

- 134 -

&lt;400&gt; 132

```

accagatct aaagcaagtc cttagtgacc tacaaagaga tttagactcc cacacaataa      60
taatgggaga ctittaacacc ccactgtcaa cattagacag atcaacaaga cagaaagtta    120
acaaggatat ccaggaattg aactcagctc tgcactgaag tggacctaat agacatctac    180
agaactctcc accccaaatc aacagaatat acattctttt cagcaccaca ccacacctat    240
tccaaaattg aacacatagg tggaa                                           265

```

&lt;210&gt; 133

&lt;211&gt; 410

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 133

```

tgctccaaga caatgagaac ttcaagacaa tagtggagtt tgagtgccgg ggccttgaac      60
cagttgattt ccagccgcag gctgggtttg ctgctgaagg tgtggagtca gggacagcct    120
tcagtgacat taatctgcag gagaaggact ggactgacta tgatgaaagg cccangantt    180
ctgtgggaat ctatgaggtc acccaccagt ttgtgaagtg ctgatccctc ttccttcag     240
tttgcccttta aaactgagaa aaggacaaag tctcttaagc agcanancca cagaagctcg    300
ttcttttgac cttggctcct ggtggctnnt accaaacctt tcacaatctg cattgctgga    360
ctttattaca gcttnccaag ccccatcaat aaacccttg tcaccctgc                    410

```

- 135 -

<210> 134  
 <211> 231  
 <212> DNA  
 <213> mammalian

<220>  
 <221> misc\_feature  
 <222> ()..()  
 <223> "n" is an unknown nucleotide

<400> 134  
 agtatttatt accccccct atgccctcat ttttttaaaa aaggaaaaaa aaaagaaact 60  
 gggttccagt ctttaattcat tttccgtgcc aggttctatt tcgtgtgtgt gtgagtgtgt 120  
 tctgttttgt gttttgtttt ttgttggtgt tttcagttgt tnggttttct tttctttccc 180  
 cctccccgtt cccatacttc acagcactnc tgggtgcggga agaagcagan c 231

<210> 135  
 <211> 223  
 <212> DNA  
 <213> mammalian

<400> 135  
 aacactgtta atgctgtaag tgaaagttca ctgtcgtctg tataactaaat ttattggtgt 60  
 ttctaactta aaagtaagac tgcagattat cccccaccag ccttagtcca ggggtgtggc 120  
 tctgtccggg tgcagtatgc agtcatgtgg aacottgctt tctagtcctg ggaaaaaaaa 180  
 gatgtctcta attctggctt caataaacac cgaatccaga ctg 223

<210> 136

- 136 -

&lt;211&gt; 216

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 136

nataagttct cntgttctat agtactgtag atgactatag ttaacaatac tatattatgt 60  
agttttaaata acctaggagt agtttgaatg ttccaacac aaagaaataa taaatgtttg 120  
agatgataga tatgctaatt accctgatct gatcaccatc tacatgtact gaaacatccc 180  
cgtatagcca tgaatatgta taatctttgt caattt 216

&lt;210&gt; 137

&lt;211&gt; 442

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 137

ggtaggtggg ttgcggttc aggactgctt ctggaaggga ctgcctgtac ttctgtacca 60  
ccgttgccct ttacactttg ctgagggcgg ggtgggggaa gcattcaaac aaaacaagga 120  
agggaactgt ctggcaaagc ataagtggat gcatccagag ctgagtcgcc tttaatcttt 180

- 137 -

tgtctctggg cgttctgctg cttcctcata ccggggacat ggcattccag gtcagcttgg 240  
 atgtggtctt agaggcaggg agtgccctacc cagtcctgcc tcaggagcag ggtgagtagc 300  
 taaatacaga cttaggcttt tttttccccc cttttaagat gctngctcct ctcccttttc 360  
 tttttaccac cctaccttta ttgttaagtg ggttacaaag tgacccatat tatgactttg 420  
 ctgtaaataa agacagacaa aa 442

&lt;210&gt; 138

&lt;211&gt; 426

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 138

ggtagtattt agagaagacc aatagacaat aaaaaatgat aaaggggata ttaccactga 60  
 ccctacagaa atacaaacta ctatcagaga atactataaa cacctctatg caaataaatt 120  
 agaaaatcta gaagaaatga ataaattcct gcacgcatac accctaccaa gactaaacca 180  
 ggaagaantt naatctctga atagaccaat aagctctgaa attgaggcag taattaatag 240  
 cctacaccaa aaaaaagccc aggaccaa at gggattcaca gctgaatcta ccagaaatac 300  
 agaggagctg gtccctcctt cagaaattat ttccaacctt ttgaaaaggg aagggactcc 360  
 tccttactct tttattgagc cngcatcatc ccaatnccca acctggaaga gacacagcca 420  
 tatcat 426

- 138 -

<210> 139  
<211> 340  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 139  
nttcaactat acctagggct acagtaacca aaacagcatg gtactgggtac aaaaacagac 60  
  
acatagacca gaatagagag ccagaaata aagctgcaca cctacaacta tctgatctcc 120  
  
aacaaagctg aaaaaaaca acaatgggga aaagacttcc tattcagtaa atgatgctgg 180  
  
ggatancttg gatagccata tgcggaagat tgaactggga tcctttcctt ataccatctg 240  
  
caaaattact caagatgaat taaaagactt aatgtgacct caaattataa aatctgggaa 300  
  
gacacctagg gcaatccctt ctcgacacag aaaccagca 340

<210> 140  
<211> 339  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

- 139 -

<400> 140  
ttntaaacca gtacgtagac tggttcccta gtgctttctt tgtctggaag tctccagagt 60  
accaagagca tactccatac cctgctgggt ggagaaaatc tgcttggtca gaggagctcc 120  
aaattgtaga tggtttaaaa atatatttagc ctggatgagc cccatcagca gcactcacac 180  
acctaccctg ttccacataa attcttgctg tgccgtagtt cacactttaa gcattctggt 240  
ccttccctca ttgacctggt taacttttca gtacactaga tatgggccat gtcaagctgt 300  
aattcattct ttgntctgaa aacaaccttt tggcaactc 339

<210> 141  
<211> 369  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 141  
ctatntgtgc atataggcat gtacatcgca gtgcttttat ttgcaaagtg tccaattatc 60  
aggtcacatt tttataacac ttgtgtatgt tgtatgtgct gcttcagaac ccaagcatat 120  
ttctcttagt tagggggccgc cttgttgccc aaatgaagaa aattagcagg gaagtgcagt 180  
atgttggtcca ttgaatgtta catacatgta atgtctcaaa tacattataa ttggaagtgt 240  
taatctgagt gagccctttg agcatgtaat aaatatcttt tagaacattt tangtatcat 300  
tttaaagtgt attttaatcc ttataaaaac atttaattta ttttgacata ctttttgng 360

- 140 -

aatcctaag 369

<210> 142

<211> 218

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

<400> 142

ttttnggctc ctatcagtag ttccatctgt ggggctcgca gtaatataag cgacctgttc 60

tgggacacag cactgggccc gctgggggtt tagtagggca gcccttccc tgcaggagtg 120

aggcatggtg acagcagtcc cctatgtgcc cccaagtcac ctgagcattg gtgtgcatta 180

aggtactcaa tcttccaaca ataaatacca taagtgc 218

<210> 143

<211> 353

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

<400> 143

cttttcgct ccacattcct tttagcttga ccagtctaata ttaaaatgtg tttgttgag 60



- 141 -

```

gtcattaacg ntacttgtac aatgctgtca ctgtgtgaca tccatatgaa ttttggtata      120
tatcaatcaa tcaatcaatc aatcacattg cattcaatca atcagctgtg attgattgat      180
tatgcttana aatactatac tatagtaact agatgcagtg tgaatttttt ccattaacaa      240
acaaacaaac aagtcagtgg cttaaattgtg attatgggtcc tgcaagggtga ttcttgctaa      300
aatatctaaa cttttgtttt gttttaactg aatcattttt taacttaaaa agc              353

```

```

<210> 144
<211> 313
<212> DNA
<213> mammalian

```

```

<400> 144
tagcttcaag aagaatgatt attmatctgt cagaacagtc cacagtttct gatcataatt      60
ctaattgattt acttcctcag gaatgcaata tggataaaac acataccatg gaattgctac      120
caaaggagaa gtttgtatcc agaccacca caccaaaatg tgttattgat attacaaatg      180
acactaatTT agaaaaggTg gtcaggaaa actcaagtac ctttggcctt cagacacttc      240
agaaaatgga tcctaattgtt agtgattcaa aacactctat tgcaaatgca aaattcttgg      300
aaacagcaaa aaa                                313

```

```

<210> 145
<211> 364
<212> DNA
<213> mammalian

```

```

<220>
<221> misc_feature
<222> ()..()

```

- 142 -

<223> "n" is an unknown nucleotide

<400> 145

```
tcgccaggaa gataaaaaaac atgaagaagc agagaagcgg aagtctgttg acactcagct      60
tcaagaanat atgattattc attcgtcaga acagtccaca gtttctgatc ataattctaa      120
tgatttactt cctcaggaat gcaatatgga taaaacacat accatggaat tgctaccaa      180
ggagaagttt gtatccagac caccacacac aaaatgtgtt attgatatta caaatgacac      240
taatttagaa aaggtggctc aggaaaactc agtaccttt ggccttcaga cacttcagaa      300
aatggatcct aatgttagtg attcaaaaca ctctattgca aatgcaaaat tcttggaac      360
agca                                          364
```

<210> 146

<211> 451

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

<400> 146

```
ncaggaccca ctcttattgg ccaggcaggg cgctcccaca gagctttgag taacttcttg      60
gntgtgcagt ctgcaggcaa tggtggcatt gtaaattcct cccttgacgc ctcttcatg      120
tggtgagggg atcacttcag ctgcctgctg tggacaaaga acatcanatt acagcatcac      180
gagtgcattt gttgcctgng gnggtctccc tgtccaagcg ggacognntt gcagagacca      240
```

- 143 -

gaggcatatc gcggccttgag ctgaanatgc atttggttgc gcttaggttg aattatTTTT 300  
 cgtttgctct ttcttctaca ccgcgcctga tggatagtga acctattcat caaanaagtg 360  
 cactgctctt ctgnctattg naccgactta acctcttcca ccagtcgcgc atctgtgtgt 420  
 anatcaataa cgntgngtgc tttgantgcc a 451

&lt;210&gt; 147

&lt;211&gt; 434

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 147

accccgcntt tattggcagg cttctagagt cccaaggctt ttgtggggag gagaatggac 60  
 aaatttgatt taaggatcaa ctttcaactg caaatcaaa gaagtataaa aattgtagaa 120  
 tgaatttaca acttggtttt acaaaattaa ttgacaata aagtcattgt agcaatagac 180  
 acgggatcct ttaataaagt caagaaactc aagtttctaa acctgatgtt gagcttcacc 240  
 cctattccct atatcactgg tgggttggtg tgcatgttt tctccaccct ctggaccacg 300  
 acattgttgt ggattcttcc atggaaaagc cctaactgtt attactgtgc ttgttatgtt 360  
 gtctcatgca acaacattcc tatatttatg gaaatgccag acaagttttg tctgtttggg 420  
 tataaataaa cctt 434

- 144 -

&lt;210&gt; 148

&lt;211&gt; 460

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 148

```
nccttaggcc ntctcanant tggcagaatc gcaacttcta agatactact agatttcgac      60
ctagtaatac taaatccaaa aaggatgtta aacttgaatt ttttggtttt gaagatcatg      120
agacaggagg tgatgaagga ggttctggaa gttctaatta caaaattaag tattttggct      180
ttgatgatct cagtgaagac tgaagatgat gaagatgatg actgtcaagt agaaagaaag      240
acaagcaaaa aaagaactaa aacagctcca tcacctctct tgcagcctcc cccagaaagc      300
aatgataatt cccaggacag tcaggtctgg tactaacaat gcagaggact tgccctggtgt      360
gcctgaaagt gtgaagaagc ccataaataa acaaggagat aaatcaaagg aaaatccaga      420
aagattttta gtggcccaac ggtacccaca aagctgatat      460
```

&lt;210&gt; 149

&lt;211&gt; 286

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

- 145 -

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 149

```
cttgntngac cgaactgttt ctttccttgg aattttcttg gccaaatgca ttcaagacaa      60
tagacttggtg gacttaccta tttctaaacc tttttttaaa cttatgtgta tgggtgacat      120
taaaagcaat atgagtaaac tgatttatga gtcacgaggt gatagagact tacacntgta      180
cttgaaagtc agtctgaagc ttctacagaa gaaggcatg attcactctc ggtaggaagc      240
tttgaagagg attcaaaatc agaatttatt cttgatcccc ctaaac                      286
```

&lt;210&gt; 150

&lt;211&gt; 335

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 150

```
ncatgcttat tctcagggtt ttcttagaaa ggatatngtg tcaggagatg aagatgtatt      60
cttttcttgc attggtgacc tgtagtttac actgtgtaaa tgcaaaaaaa aagccctata      120
gtgagtcgta ttaaatacga ttcccgcggc cgccatggcg gccgggagca tgcgacgtcg      180
ggcccaattc gccctatagt gagtctgatt aaatcgaatt cccgcggccg ccatggcggc      240
cgggagcatg cnacgtcggg cccaattcgc cctatagtga gtcgtattac aattcactgg      300
ccgtcgtttt acaacgtcgt gactgggaaa accct                                335
```

- 146 -

<210> 151  
<211> 418  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 151  
cccttngggc ccgggnncat ttnacaagag actaactatc ctaanatatt tgcacccaat 60  
  
acaggagcac caagattcat aaagcaagtc ctgagtgacc taaaagaga cttagactcc 120  
  
cacacattaa taatgggaga ctttaacacc ccactgtcaa cattagacag atcaatgaga 180  
  
cagaaagtca acaaggatac ccaggaattg aactcagctc tgcaccaagc ggacctata 240  
  
gacatctaca gaactctcca cccccaaaaa aagccctata gtgagtcgta ttaaatacga 300  
  
ttcccgcggc cgccatggcg gccgggagca tgcgacgtcg ggcccaattc gccctatagt 360  
  
gagtcgtatt acaattcact ggccgtcggt ttacaacgtc gtgactggga aacccctg 418

<210> 152  
<211> 289  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

- 147 -

&lt;400&gt; 152

ccccnttcgn tttnctttgg cncgggacgg gttggtagtg gcagacgatg aggtgtgagg 60  
ggcagaggaa taagaaatth antggthttt attcagactt tattatttgg gcatgagcca 120  
ttggtgatta actcaatctc cagccccctt gccctccctg aagggtgggg aggcaggaag 180  
tccatccctc tgatcatgcc ttggtctcca tccccaaac cccatcctga agctacctag 240  
ggcccccaat accgagtcatt ttcattagag aaggacattc attnctcca 289

&lt;210&gt; 153

&lt;211&gt; 266

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 153

ngnttcccct tgggcccggg ncattttaaca aggaanacta acctaatata tatgcaccca 60  
atacaggagc acccagattc ataaagcaag tccttagaga cctagaaaga gacttagact 120  
cccacacatt aataatggga gactttaaca cccactgtc aacattagac agatcaacga 180  
gacagaaagt caacaaggat acccaggaat tgaactcagc tctgcaccaa gcagacctaa 240  
tagacatcta cagaactctc ccccc 266

&lt;210&gt; 154

- 148 -

<211> 409  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 154  
gcccggncc ntntaacaag gagcntaac tatectaaat atatatgcac ccaatatagg 60  
agcaccaga ttcataaagc aagtcctgag tgacctaaa agagacttaq actcccacac 120  
aataataata agagatttta acaaccact gtcaacatta gacagataaa tgaaacagaa 180  
agttaacaag ggtacacagg aattgaactc agctctgcac ttaagcggat ctaatagaca 240  
tctacagaac tctccacccc aaatccaaca gaatatacat tcttctcagc accacaacac 300  
acctattcca aaattgacca cataacttga agtaaattct tactcagcaa atgtaaaaga 360  
aaagaaatca taacaaactg tctctcagac cacagtgcaa tcaaactag 409

<210> 155  
<211> 339  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 155



- 149 -

```

cccttgtagc cagatccttt nccagtgcac cccctttccc caagcgctc cttctcctct      60
gtgtcccttg tattggggtg ctactacctg gttcccatc tctacttac ctaggaacca      120
cctccagagt tggcagaagt tgggagacat aaggcgagac aggcacaaag tggagtagag      180
tgaaaagaca caggctttac agttaaaagc cctgtgttta ggccaggtgc ggtggctcac      240
gcctgtaatc ccagcaattt gggaggctga ggtggacaga tcacaaggtc aggagatcga      300
gaccatcctg gctaacacgg tgaaacccca tctctacca                               339

```

&lt;210&gt; 156

&lt;211&gt; 325

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 156

```

cnttctgta cgcnaacctg gaaatactct tctcaacatt agccttggca aggaatttgt      60
ggctaagtcc tcaaaagcag ttggcaacta aaagaaaaat tgaccaatga gacctaatta      120
gagagcttct ggacagcaag agaaactatc aaggagtaga acagacaacc tacagaatgg      180
gagaaaatat tcacaaacta tgcattcaac aagggtctaat gtccaaaatc ttaaggaact      240
taaatcaact agcagataac cccattataa agggacaaaag gacatgaaca gacactttct      300
caaaagaaga catacaaggt agcca                                           325

```

- 150 -

<210> 157  
<211> 351  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 157  
accattctg tgggtcaaag caagtcatga ggccatctca gtttcaagga gaaaggaaat 60  
aagctctacc tcttgagggtg aggaatcaca aataatttat ttctatttca gtctacogtt 120  
gacctatcct ttaaaaactgc attccttaaa aaaacagtta aataatacgg gaactttact 180  
gttctcaagt attttgtgta aagattgaaa gctacnggaa gcattgagca cttgatatac 240  
ttttgttttg aaattcccat tttaaccgtg tgcagttcag tggtttttag tatgttcacg 300  
tgattgtgca aacatcatta ctatctaatt ttagaacatt atcaccccaa a 351

<210> 158  
<211> 440  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 158  
tgtaccaca ccaggnttcc agtgaaacag tgggctangg gactgggccg cccacagaca 60

- 151 -

ctgaggaggg tgtataaaga gtcagcggct gaggccctga caagcctgtg cttgcgctgc 120  
gggcatttat tcagtataga tttaatgaca aaggtcttga gtcaacacac ttgtggggaa 180  
ttcacatggt cgtgcttgcg cccaccccca ccccccgcta gtcttgcattg cagatgattt 240  
aggccagggt ccatggtcta agtaaaactaa cttacttaga tgagtttctt tacatcccct 300  
tgttacctaa cctaaagttt caggcaccag ataagacaat ctggcttgcc ttcagccaaa 360  
tctttttccg aagcttttgt aaaaccttcc agccttccaa gaaggttaca tctttctaca 420  
atttttccac cccctgactg 440

&lt;210&gt; 159

&lt;211&gt; 281

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 159

aatatctgca ttattagtat ttttctttaa attggatcac tttttttctt acctangtaa 60  
atatatctta aaaggaaact atattactgg cttaaattga aagctattat cacttggtat 120  
gcagggaagg tgaccataaa aataatcaca atggagggcc ntggcacagn ggcttatgcc 180  
tgtaatccca gcactttggg aggtcgagac aggcagatca cctgangttg ggagntcgag 240  
accagccctg accaactgg agaaactcca attctaccan a 281

- 152 -

<210> 160  
 <211> 260  
 <212> DNA  
 <213> mammalian

<220>  
 <221> misc\_feature  
 <222> ..()  
 <223> "n" is an unknown nucleotide

<400> 160  
 tggcaaaaat gtgtgattct ctgctgctgg gtcagaaggc caagagttca gatgccttgt 60  
 ccagctgtg cccttgactt tcacaatgac ctgtcagcag ttatttaacc caggtcaagc 120  
 cgagtggcaa aatgccgaac accaggggtct ttatagatct taatacctct gcagtaaagc 180  
 gggggaaatg cctccatatg aagttttncg tacanctgtc tccttacact ttcttatccn 240  
 tttncagtg nccatgcctt 260

<210> 161  
 <211> 249  
 <212> DNA  
 <213> mammalian

<220>  
 <221> misc\_feature  
 <222> ..()  
 <223> "n" is an unknown nucleotide

<400> 161  
 aagtgtcaac cttgcagcag gatttggaca ctctgggagc caaactggat gtggaagctc 60

- 153 -

caaaggtaca gaaaaagaac tccaaaatgt tgacttttac ctctgtcctg ggaatcaccc 120  
 tgacgctagc tgtcgagata cttatcagtt tttctgccct gatnggacat ttgtaacttt 180  
 tatncaccta cnttggggga tcaaccagat cttcattcta tactcgtgct ccttgcccta 240  
 attatgtcc 249

<210> 162  
 <211> 410  
 <212> DNA  
 <213> mammalian

<220>  
 <221> misc\_feature  
 <222> ()..()  
 <223> "n" is an unknown nucleotide

<400> 162  
 gggagctccc ncgtcctcag gaccttgact cggctataat gagaagaatg cctacaagat 60  
 ttcatatcaa ccagcctgct ttaaaacaga gagaagcaat cctgaaactc atcttgaaaa 120  
 atgaaaatgt ggataggcat gtagacctgc tagaagttgc ccaggaaact gatgggtttt 180  
 cagggaagtg acctaaaaga gatgtgtcga gatgctgcct cctctgtgtt agagaatatg 240  
 ttaattctac atcagaagaa agccatgacg aaagatgaaa ttccggcctg ttcaacagca 300  
 gggacctgca tcggggcaat tgaaaagatg aagaaatcaa aggatgcagc atttcagaat 360  
 gttttaccac atgtttgttt agattaagaa gtaagatctt ttgtncagtc 410

<210> 163  
 <211> 428

- 154 -

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 163

gtnnntnta gatggcngt gagagctctt tgaaaatgaa aacattctgc tatttgaatg 60

caaagtgttc ttctttgcct gtgatgtttc ctaatctgtg aactcatact ggacctcgaa 120

gctgtctatt aacaaaaaat ggcaaagtgg ctgggcatgg tggctcatgc ctgtagtcct 180

agcactttga gaggctgaag ggggcnggat cactttgaga ccaggagtgc gatgccagcc 240

tggccaatat gtgaaactcc atctctacta ataatacaaa aattagccag gtgtggtggc 300

atctgcttgt agtcccagct actcaggagg ctgaggcaca agaatcattt gagctcagga 360

ggcagagggt gcagtgagct gagatggcac cactgcactc cagcctgggt gacagagggg 420

ggctctgt 428

&lt;210&gt; 164

&lt;211&gt; 303

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

- 155 -

&lt;400&gt; 164

```

agaatctaag ggaatgaatt agttctgtag atgacaattt cttcacccat ttatgagacc      60
taaactctttt ccataacact catgtattca gtataacaac atactaactg aaagagggac      120
ctgattgtttt aaagtttgat tgcagacact ggganacata actcattatg tttcagataa      180
ggtaactcct agatatcaaa ctaatttggt ggggnagaga ttttacangt catgccatta      240
caagattttc tctgatatta tatgtgcagg tcagttncaa gatgaaatca tgttttttta      300
aca                                                                    303

```

&lt;210&gt; 165

&lt;211&gt; 411

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 165

```

agtgatttaa tacgactcac tatagggcct tttttttttt caggcntgcn cagcatccct      60
gtgctggagt ttattttaaa aancancncc ccagttatca cagtttcttt ttngttcac      120
cattttccat aacntntaa cctacacaaa atttgggggg agatcctctn tttggagact      180
gacncatttg cagaggggtc atgaataatg attccaaagc tcctatttac cttctgaatc      240
aggcaaagaa tangngacan tntaanaatg aattttgttt ccggcagntt cattaatnnc      300
ncattggaat cnttnccggg gcnggggggt ggaaattaan ncccccaana aaantttttt      360

```

- 156 -

agccccgacc ccnancac ttaaattccc actggtcca accaaaagaa c 411

<210> 166

<211> 404

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

<400> 166

gcggataaca atttccacag gacgactcca agtgagggcg gccaaagtcct cgctgagcag 60

agagggagcc gttcatgtca gagactcact gccagaaaag ccttaccat tttggttttc 120

actattgaga ccgcaactgc ttgcactgat cattttggtt ccgtgagcag ttggtgattt 180

tagttggtct ggtgttcggg ctaagaatat tttattgtgg acttaattac aaccctgcct 240

gtaatgattc aatgctgnat tatgatattg ctgnaaacia aattcattct tatattggca 300

cttattcttt gnetgattca naagttaata ggagctttgg aatcattatt catgaccct 360

ttgcaatgtg tcagctcaa naaagntttc cccaatttg ngac 404

<210> 167

<211> 403

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()



- 157 -

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 167

```
gtgattagcg gataacaatt tcacacagga cgactccaag ggtacccagt catagttgtg      60
ggggctatat acttttatga gtttgatctt taggagctct aactactagg tcctcacagt      120
aagtatcaga tgannnagtc ctcttgtgct tcttggtagg aggaggggaa aaaactatta      180
taaaataagc cagaggtggg aggatcactt gagcccagaa gtttgagacc agcctggaca      240
acatagtgag atcctatctt tacaaacaat tacaacaaaa ttaagccatg catggtggcg      300
catgctggtg gtcccagctc tcangttgaa taggagcntc gcttggggccc angaggcaag      360
gctgcagtga ccatgattat atactgcctt cagctgggtg aca                          403
```

&lt;210&gt; 168

&lt;211&gt; 290

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 168

```
ccagactctt tgtgatgtag cttttaggag gcactcaggt gncacggcta nactgcagct      60
atgagacaga tctggcttcn atccaanagt tgnecatgcac ttgctgtgtg accttgggca      120
agtcacttca cttctctgag ccccggtgtc ctcatctgta caatgnggct tacgatacta      180
ctacctcata ggggtntcct ggggatccag tatgangaag tgcncagggt gcttggcatg      240
```

- 158 -

gtgcccgga cggcaaaaag tgctcaataa atgtttttgt cntaacnga 290

<210> 169

<211> 473

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

<400> 169

tccacgactc tctacnnatg ataactcaat tcaaatgtgt tagcctaaag ctctggaact 60

ggtattccaa ccagctgacc gaactcactg accagtacag gcatgggttat ttcaacatta 120

atagcatgtc aactggactc ctatttgtaa atgttatcaa tctaagcaat ccagctcatc 180

agtctactag tttgcttctt tccnagagat gtcaagtcct caagaatttg atggcttctt 240

ctgcagctat aaccacaagg aacctacaca ttgtaactca ngtcactgc tggetcatga 300

aatgtgtaaa gtagaaccct ccttcccgag aaataagaca ggacaataaa aggtggcggtt 360

tttgtacttt acctggattc cattggctgg ttttaccact cctatcagat tgtagtgtaa 420

ttgtgtgacg gcanaccatt anttttccca gtgatgattt aataaaatta tga 473

<210> 170

<211> 386

<212> DNA

<213> mammalian

- 159 -

&lt;400&gt; 170

cacgaccgta ataccagcc catgtttggt gctctgctga gtgggctgcg agaagcggga 60  
agaattgcag accagttttt gggggccatg tatacgctgc ctgccaggc cacaccaggt 120  
gttcctgcac agcagtcccc aagcatgtga gacagatgca ttctaaggga agaggcccat 180  
gtgcctgttt ctgccatgta aggaaggctc ttctagcaat actagatccc actgagaaaa 240  
tccaccctgg catctgggct cctgatcagc ttgatggagc tcctgatttg acaaaggagc 300  
ttgcctcctt tgaatgacct agagcacagg gaggaacttg tccattagt tgggaattgtg 360  
ttcttcgtaa agactgaggc aagcaa 386

&lt;210&gt; 171

&lt;211&gt; 233

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 171

tcaccacaca ctagccttga tatttggtggc tcccgtctc tcaactcccc agttcctttc 60  
agacatcttt agtttaaagg tgagctgaaa ttaagaagtt ggaaatccta accangtgtg 120  
gtgggattcg cctgtaatcc cagctacttg ggagactgag atganaggat cacattgagc 180  
ccangagttt gaggcngcc tgggcaacat ataccctccc ctgacatctn tga 233

&lt;210&gt; 172

- 160 -

&lt;211&gt; 215

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 172

tcgcctaggg aaaagagagt taacggatac aaattacagc tagaaagatg ggaagagtga 60

attccagtgt tctaaagcag ggtaggtgac tacagttaat gattatttat tgtctactta 120

ttgtatatta ttgtatattt tcaaattattg tatattttca aagaggattc tgaatgttcc 180

caacacaaca aaataataaa tatttgaggt gatga 215

&lt;210&gt; 173

&lt;211&gt; 267

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 173

tcgcctagggc tgacctgtta tggaccccca aattctgaga gttcctgcaa caagaatact 60

gctgttgaca ctccagtgga aatcccagca gccttggttag tgcacttgaa agtgggagaa 120

tgctgaccct gatgacttgt actgattcct gagccttaac actgtgctct ttccttctgt 180

atataccatg gtcttacttt ccaactctgt acagatttat ttatggagga gctaggtcca 240

taaattgttgt aataaatatt cctttga 267

&lt;210&gt; 174

&lt;211&gt; 423

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

- 161 -

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 174

ggatagtgac cgtgacttnc taacgcataa tattctgtga tacagccttc cgtacatgtg 60

tgaagtctg cataactttc gaactttgtt aaatgttggc actaggagtc atcagatcta 120

ggcttcatca ttttccagtg agaagcagag acccaaaggg cctgttactt gtgcttggtc 180

aggggactgt ctgtcatgcc tggaggctct tcggcacact tcccatctt tcccttctgc 240

acttgtggct ttcaagcacc tctgttcata gagcgtctct gaaattgagt ctcggtcatg 300

acttatcccg aagtagagca atgtgtttcc tctcattgta gtttcaggac tttgtcagta 360

caaagctctg ccctaggctt gttactttat actcatatcc tgaaaagatg tgatttcatc 420

tat 423

&lt;210&gt; 175

&lt;211&gt; 503

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 175

tccntatat gcgccaagnc tgttttggct aatccccata cattaatttt agatattctc 60

tattttatgg atagcatttn ccttgtagcc tttaaaaaag acatgtgaaa tgattgacaa 120

- 162 -

attaaagcac aatgaaaata agatataaat gaaatcagaa gtaagttagc tttaaaaaaa 180  
aaaaaanagt ngggggcana nancctgttn ttgtctccan agncnggcct tntttctttt 240  
taangacctn cancaccttt ntngaccaaa gataccctaa ngaccnttaa atngatntgg 300  
ancangtcnt tcantctccc tgcctntca gttggctcat aggctctggc agctaagggc 360  
cctgtntccc taagagggtt gtttctcggg nctaatagaca caanganngg cacgggggnt 420  
aatttggncc ggngatgggg ggggggtcaan cgtcccnccc accttncacg gggngngngg 480  
ggggctcccc cctaantta ncg 503

&lt;210&gt; 176

&lt;211&gt; 203

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 176

nttttggtc ctgggttgac aattnggtgg aaacagctnt attgctacta tntaaaaaaa 60  
atcagcaaat ctttcccttt aagctatggt aaattcaaac tattcctggc tattcctggt 120  
ntgtcaaaga attatatattt tcaaaatatg tntatttggt tgatgggtcc caggaaacac 180  
taataaaaac cacagagacc agc 203

&lt;210&gt; 177

&lt;211&gt; 444

- 163 -

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 177

```
gctccctgct gccctcagga taaagtctgg gaccctcag catggcttgt gagactcatg      60
gngtccttgt cctgctcac ctctctgggc tcatcacttg ccttcttgca ttctgggtcc      120
cagcctcctg tatccagaga tgcagtggct ctccattgcc actctgattc ctcccttctt      180
ttggtcacag agaaagggtg ctttctctgt caaancnna cttacacttg acttcctcca      240
aggagctnan ggctatactc tnttctcccg acccccaccc tggcatacta cacagatcac      300
tctgggctca ctgacctgcc taatgggcat ctccccagta gactgtaagc tccttgaggg      360
caaggattgt gttggaattt ttgtattaac agtgcctgnc ttgngctgc acctagaaag      420
cactcaataa ntgnttggtt atga                                             444
```

&lt;210&gt; 178

&lt;211&gt; 364

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

- 164 -

<400> 178  
cataacttgaa atccaaggag tctgtgaccg atgcaattct acagacagac cagatttctca 60  
cagaaaagga aaaggagatt gaagtggaat gtgtaaaagc tgaatctgca caggcttcag 120  
caaaaatggt ggaggaaatg caaataaagt atcagcagat gatggaagag aaagagaaga 180  
gttatcaaga acatgtgaaa caattgactt gagaagatgg agaggagag ggcccagttg 240  
ntggaagagc aagagaagac cctcactagt aaacttcagg aacaggcccg agtactaaag 300  
gagagatgcc aaggtgaaag tacccaactt caaaatgaga tacaaaagct acagacgacc 360  
ctga 364

<210> 179  
<211> 438  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 179  
ccagaatcta aaaatgctgc gtatagtgga accttatgtg acctggggat ttccaaatct 60  
gaagtctgtc cgagaactca ttttgaaacg tggacnagcc aaggtcaana atangaccat 120  
ccctctgaca gacaatacag tgattganga gcacctgggg aagtttggcc gtcatttgct 180  
tggaagacct cattcatgaa attgccttcc cagggaagca tttccaggag atctcatggt 240  
tcttgtgccc tttccacctc tcagtggccc gtcatgctac caaaaataga gtgggcttcc 300



- 165 -

tcaaggagat gggcacacct ggctatcggg gtgaactgca tnantcacct catccgtcan 360  
 ctnaactaaa cccaggtgag gcagggctga aaactgncct tgggctgact tttgataggg 420  
 catgccttgc cactntac 438

&lt;210&gt; 180

&lt;211&gt; 356

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 180

acaatttcac acaggatata acgaggaaaa gacattagca aaagacttga ctaagaattt 60  
 ttacacaaga gaatatccac acggtggctc acacctgtaa tcccagcact ttgggaggct 120  
 gaggtgggca gataacctga ggtcaggagt ttgagaccag cctggtcaac atggtaaaac 180  
 tccatctcta ctaaaaatac aaaaactaac ttgggcatgg tggcaggcac ctgtaatccc 240  
 agctactcag gaggcttgag gcaggagaat cacttgaacc cgggaggcag aggttgcagt 300  
 gagctgagat tgtgccactg cgctccagtc tggatgacag agcaaaaactc catctc 356

&lt;210&gt; 181

&lt;211&gt; 191

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 181

gaagctgtgt gctctgggta tttcccatc tggatttttc aaatcctttt gttaattttt 60  
 gaccatgggtg agttcaggcg ttgttattat gttgcttatt atgaatacag tgaggatgac 120  
 taggtgtaaa tgaatgtaag gtaacagcta gatctgcctg aggtggagag agactgggtg 180

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tgtatatttgg a 191

<210> 182

<211> 450

<212> DNA

<213> mammalian

<400> 182

taccaatcaa tctcggttta atcaccaaaa gtgcagagca ggcaaaatgc agctgtttat 60

caatctcaaa agctttggga cagtgtcata gttgaaagat gagacttaag aaaacagttt 120

cttaaacttc ttaaaactta agaaacattg tttcataaaa caatattgag tgggcattct 180

tctgcacagt gtgatgctcc aaccctggcc ctagtctcag tagaccatgc ttgctcgagt 240

gtgcatcgga gagaagccat gggtaacctc ccattagag gctacttcct tctagtaaca 300

ggaaggggaag ttccagcatg aggtaagtta tccagggtag aaggctcttt gaggggcttg 360

gttgaattga gagcatcatc tctagatgat gctgttcctg ctgcagatct ctaggatgga 420

gagaattctc tctttagtca gagaagttat 450

<210> 183

<211> 302

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

<400> 183

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```

tgtttatcac actgctggat gtcaatgacc ccccccctcag tttggaaaga gcgttcagaa      60
gaagacgatg gtgctagggg cccagtgaa aattgaggcc atagacgagg atgcagagga      120
acccaacaac ctggtggatt attccatcac ccatgcagag cccgccaacg tgttcgacat      180
caattcccac acggggggaga tctggctcaa gaattccatc cgctccctgg atgccctgca      240
caacatcaca cctggaaggg actgnctatg gtccttagag gtgcaggcca aggaccgggg      300
ct                                                                           302

```

```

<210> 184
<211> 228
<212> DNA
<213> mammalian

```

```

<400> 184
tgttggtcct ttcttcctta agtgccaagt gctgagctaa aggaggataa ctttttgggg      60
aagtcattgct gaggggtgga gtgtgaccct gcctgaaaaa agggctctctt accctcccag      120
ccctggctca actctgaaga aggatcttgc tacagaagga gcccttgggc tcccttctct      180
ttgatagcag ttataatgcc cttgttccca ataaaactgg gcagatgg                    228

```

```

<210> 185
<211> 443
<212> DNA
<213> mammalian

```

```

<220>
<221> misc_feature
<222> ()..()
<223> "n" is an unknown nucleotide

```

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&lt;400&gt; 185

ggcttcctca ggggangggc acacctggct atcggggtga acgcatcaat cagctcatcc 60  
gtcaactgan ctaaaccan gtgaggcagg gctgaaaact gcccttgggc tgacttttga 120  
taggccatgc cttgccactt tacaagttct ttttgcatth actagtatth aagagtaacc 180  
ttgagattgg gaggaataaa ggaggcttgg tacaaataga tgganacctg ctgggatcag 240  
ngaatgcctg attacgacat ggggctatgc ataagcctaa gagttatagg cttaaagatg 300  
tngagtaact aaaaactgta ttgctggccg ggcgcggtgg ctcacnctg taatcccanc 360  
actttgggag gccanggcg gcagaccatg aggtcangag attgagacca tcctggccaa 420  
catgngaaaa ccctgttcta cta 443

&lt;210&gt; 186

&lt;211&gt; 203

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 186

gctcctacta caaccgggta cacatcctgg ggggagcctc gaccacacct ctttggtcag 60  
atgttcgtcc gcctgcagct tctgagagct gtgcgtgagg tgctccatac tggcctggct 120  
atgctggggtc tccctccact gagccacatt taaggccaca gaggctccaa tacctgggaa 180  
tgttcacaaa gtcatcaact gga 203

&lt;210&gt; 187

&lt;211&gt; 302

&lt;212&gt; DNA

&lt;213&gt; mammalian

- 169 -

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 187

tgtttatcac actgctggat gtcaatgacc cccccctcag tttggaaaga gcgttcagaa 60

gaagacgatg gtgctagggg cccagtgaa aattgaggcc atagacgagg atgcagagga 120

acccaacaac ctggtggatt attccatcac ccatgcagag ccgccaacg tgttcgacat 180

caattcccac acgggggaga tctggctcaa gaattccatc cgctccctgg atgccctgca 240

caacatcaca cctggaaggg actgnctatg gtccttagag gtgcaggcca aggaccgggg 300

ct 302

&lt;210&gt; 188

&lt;211&gt; 131

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 188

tctcgttccc gctcaagatc aagacacagg cataggacta gaagcaggag taggacaagg 60

agtaggagtc gagatagaaa gaagagaatt gaaaagccga gaagatttan cagaagtta 120

agccggactc c 131

- 170 -

<210> 189  
<211> 274  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 189  
gattagcgga taacaatttc acacaggacg actccaagca aagatcttcc ctgagattct 60  
  
cctgtgcctc ctgttggtc tctttgcac tggcctcac caccgagtct gtgtcaccac 120  
  
ctgcttcac tntncatgg ttggtctgta ctacatcaac aagatctcct ccaccctgta 180  
  
ccaggcagca gctccagtc tcacaccagc caaggtcaca ggcaagagca agaagagaaa 240  
  
ctgaccctga atgttcaata aagttgattc ttg 274

<210> 190  
<211> 157  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 190  
attagcggat aacaatttca cacaggatgg attggtcttc tagtggaata atgccctagt 60

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ttctctgaga tgatgtaagt ggcacgatgt tacctaaggc ttaggcttag cttgatttct 120

gggcccantg tttgtgttnt taagatgcc a cctgttg 157

<210> 191

<211> 403

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

<400> 191

acaatttcac acaggaacgc tagtgtgtat ctatcatgta tgcaataactt tccccctttt 60

tgctttgcta accaaagagc atatatttta ctgtcagttg tctcaactct tgaatccatg 120

tggcngtttt ctctgtcctg ctgcttcttt tggcctcttc gttttccttc tctttttcga 180

caatggtaga catgaatgag atatttaaag ttcattggaa atcttcttcc ctacagcagt 240

aagcaaaaat tagcaaagag ataggtctaa atggcctctc agcttggtat gtgaaaatga 300

gatcacatac tttttaaatc caaatacaaa agcatagtct ctgcaagatt ttgttctttg 360

aatttcttga tattgnattg attattgana ctgnccatcat gaa 403

<210> 192

<211> 296

<212> DNA

<213> mammalian

- 172 -

&lt;400&gt; 192

ctgaaaatgc agtcaaggct gctggaaagt acagacaaca aggcagaaat tatattgttg 60  
aagatggaga tattatcttc ttcaaattta acacacctca acaaccgaag aagaaataaa 120  
atttagttat tgctcagata aacatacaac ttccaaaagg catctgattt ttaaaaaatt 180  
aaaatttctg aaaaccaatg cgacaaataa agttggggag atgggaatct ttgacaaaca 240  
aattattttt atttgtttta aaattaaaat actgtgtccc ccccccccc taaaaa 296

&lt;210&gt; 193

&lt;211&gt; 420

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 193

aggcatctgg tgcccatagc agantctcaa aaggcaggag aangggacga cgatgaggaa 60  
aaccttctctg agggagagat cctcctccc caagacccca gtgaagaatg ggtggattac 120  
gtggactctt tggggcgctt cggcgctgt atgagaaagg atttgccaga tctgcttgga 180  
gatggataaa aatcttcagg ggagactttt tattagtcct gctaataaaa aaaccctatt 240  
atctgaagat atgaagaaaa gaacttcagc gccagcaatg ggaggaagaa gaaagagagg 300  
ccctgaagag gcccatgggg ccgtacatt atgaagacat tcgggaaaat gaggcccggc 360  
aactnggtgt tgggtatttt gcctttgcc gagacaagag ttgagaacaa gccgatgaaa 420



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&lt;210&gt; 194

&lt;211&gt; 327

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 194

tgattttttt agtanccgga tctgtggac agggcgcagc tctaccagtt cctgtttctt 60

ctgagccaga ccctcttcag ggaagggacc aattaatttt aaaactcact tgaagcacag 120

ctggtcatgg ggcttggtat aaagttccta tttccaccct gatacttcca attcctggaa 180

ccccagccca ctcccccatc cctcctccct atcaaactag tataatgatt ttgaatcggt 240

acagtgtggt taactgtaac taagttcaac agactattat tatctttgta ataaattaac 300

ctagcaataa aaattattct gtttcga 327

&lt;210&gt; 195

&lt;211&gt; 336

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 195

agtgattagc ggataacaat ttcacacagg atgatgctac ctctgctgct gcaactcacag 60

ccacacttga tacacgatga caccttgctt gtttggaac atctaaacat ctagtagatg 120

acttgcaggc tgttggctac cagtttcctg tctgaggtgt atatgttaac ttcgtgatca 180

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gtttgtatgt ttgggactct tgtcctatgt aaagttaagg tgggccgggt gcagtggctc 240  
 acgcctgtaa tcctaacact tgggaggccg aggcgggtgg atcacctgat ggtgaaacct 300  
 catctctact gaaaatacaa aaattagctg agtggc 336

&lt;210&gt; 196

&lt;211&gt; 368

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 196

cgcctagcgg ataacaattt cacacaggat ttgggtccc ccaaaaaata caaaccaaca 60  
 gaaacttggt atgcactcat caaaatgtac taatgggtac tctgaactca ttaccattga 120  
 catctgcatn ntntntnca gggaaaaaat ctcatcttct tttccagtac aaaatagttt 180  
 gtgaaangat gagggcattt tatctgcttg ctgtgaccan cgtgngtaca cataaacctt 240  
 aacaangact acaagnatat tccacanagg acactcattt gcnngnatca ncctaantna 300  
 tanacaatta cnaacttcnn aagcnaggng tcttggtan tanccccaca tttagcagct 360  
 ccacatcn 368

&lt;210&gt; 197

&lt;211&gt; 386

&lt;212&gt; DNA

&lt;213&gt; mammalian

- 175 -

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 197

acgactcact atagggcttt ttttttttcn cataaaaaca agttttaatt tgattgaaaa 60

taaaataaca gtcgtctctg acagnggaga aactatgctc aaangattac tttgaaatan 120

anttttnnnt tatcgtactt tnggatinga catttcatac tgactctcag atagcacata 180

atagagaatc ctccgtcttc taaattnngc tttctctgaa atctgtacaa gtcctttgat 240

aacactatat tattgaaagt ctctggagtg aaacactata cactaattta cagtnataaa 300

tacaaaaaat tggacacggg gggaaaaaaa gttctgattg cctgcnagct gggttctcat 360

cccatggntg ccagtttgnc cagttg 386

&lt;210&gt; 198

&lt;211&gt; 303

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 198

aacaatttcc acaggatttt ggctcctcat tagttatgca aatttctgca gccagcttga 60

atttctcttc agaaaatagg acttccttctc tatcacattg tcaggctgca aatttttttt 120

- 176 -

ngtttnatgc ttnggtccc ttattaaact gaatgccttt aacagcacgc aagcacctct 180  
tgaatgcttt nttgcttaga aatttcttcc accagatacc ctaaatacatt gctottaagt 240  
tcaaagttcc acagatctct gggncagggg gtaaaatgct gcgaggtttg tttgctggaa 300  
cgt 303

<210> 199  
<211> 267  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 199  
ttagcggata acaatttcca caggacgact ccaaggaaaa gaaatcatta tatcagaaag 60  
aaacctgaac ttgtaagttt atcgacgac tattcatttc ttatttgttt atttatTTTT 120  
attttaaaaag gttagttctt gagtcagtat gacntgacta tgtaccgagg acacaatctg 180  
aagagttcct gagaaagtgt atctgcagaa gttagactgc actttggttt tatacatttt 240  
agaaaggag gaggttttat acatttt 267

<210> 200  
<211> 197  
<212> DNA  
<213> mammalian

- 177 -

&lt;400&gt; 200

tggtcgtctg tataactaaat ttattgggtg tttctaactt aaaagtaaga ctgcagatta 60  
tccccacca gccttagtcc aggggtgtgg ctctgtccgg gtgcagtatg cagtcagtgtg 120  
gaaccttgct ttctagtcct gggaaaaaaaa gatgtctcta attactggct tcaataaaca 180  
cgaatccaga ctgctta 197

&lt;210&gt; 201

&lt;211&gt; 498

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 201

ggtcgtctac ttttaaggtgc attcaacacc acatttctag cataaagaac aaatttgact 60  
tactcgtgat ggagtgttct gccgtgtttt caggctagca catttcggtg atcattactt 120  
aggtggattc ttttaatcta aaacaactca gttttagaat catgtgttta attcatgccc 180  
aagaaccata tcttgtctca aggtacaagt gtagtttcgg ttcagtgaac ctcaggaaaa 240  
aacattgaag cagcttttagt gtttttaaaa taccatgctg agtgactcat tatctttgat 300  
cacacttgct tgaaatttgc acagagaagt aggttgcagc agcttgcctt agaaagaattt 360  
ctgagctcta acttattttg tgacctgttg gctaaaattt gacatttata tgccttactt 420  
tgcagtttct tgatcctctg tgaagtcttg agaaagagta ctattgctat ccctcgtaac 480  
aggaagaact tgtgctta 498

&lt;210&gt; 202

&lt;211&gt; 442

&lt;212&gt; DNA

- 178 -

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 202

```
atggtcgtct aacagaanta aaatgctgta aatatttgta acaacatntt tttttaacaa      60
ggcCaaaaaa gaaaaaaagg ttttgggaa caaatgaact tataaagtgg ttttatataa      120
aacatcaatt gtcttgata ttttgataa gcagcagtac cagctttcat ttgtaacagt      180
ctgtggcatt ggaaaaaaag gagtctgtga ttgttgaagt gaattatggt ataaatgcaa      240
agagaagata aaatattaaa aaacatattt tctaaatgcg tagtgcattg ttaattcaag      300
cttctgtaca ctacagtata ttccattttc gttcagtttg tatatttgct gactattact      360
tgatatctct aatctctttt cctaacaaat atagcattgt agcatgcctt ttaataaatg      420
tcatgacatc tgtactctct ta                                          442
```

&lt;210&gt; 203

&lt;211&gt; 411

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 203

- 179 -

ttagcggata acaatttcac acaggagttg caccatgttg gctaggttgg tcttgaaccc 60  
ctaacctcag gtgatccacc ctccttgacc tcccaaagtg ctgggattac aggcatgagc 120  
cacagtcccn ngcccaatac ttaacatctt tgcatgataa aaacctgaac aagttaggta 180  
taaaaggaag atgtctcaac acattaaagg ccctatatga ccggcccaga gctgaaatct 240  
taacaccgaa gagttgaagg ctttttctct aagatcagga acaagacatg gatgccatct 300  
tttctccttc tggtcagtggt tgtactggaa gtcatagcaa gagcatttag gcaagagaaa 360  
taaagacatc taagtaggaa aagaagaaaa acttgcctct ctgattatct t 411

&lt;210&gt; 204

&lt;211&gt; 490

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 204

tagaagtgan gagatggcca cagttagaaa tcgtatgtct gantgaccgc ggctgcttcc 60  
gagaaattga tgagctaata aaaaaggaaa ctaaaggcaa aggttctttg gaagtactca 120  
atctgaaaga tgtanaagaa ggagatgaga aatttgaatg acacccatca atctcttcac 180  
ctctaaaaca ctaaagtgtt tccgtttccg acggcacatg tttcatgtct gtggtctgcc 240  
aaatacttgc ttaaactatt tgacattttc tatctttgtg ttaacagtgg acacagcaag 300  
gctttcctac ataagtataa taatgtggga atgatttggg tttaattata aactgggggc 360

- 180 -

taaatcctaa aagcaaaaatt gaaactccaa gatgcaaagt ccagagtggc attttgctac 420  
tctgtctcat gccttgatag ctttccaaat gaaagtnctt gaggcagctc ttgtggggtg 480  
aaaagtatatt 490

<210> 205  
<211> 448  
<212> DNA  
<213> mammalian

<400> 205  
cactggcatt accgcttgac caggagccct caagcggccc ttatgcaggt gtgacagagg 60  
gtcacctct tgccttctag gtcacttctc acaatgttcc ttcagcacct gaccctatac 120  
ttgccggtta ttcttaggtt atattagtag tgcaacaagg agtaatatta aaagctaattg 180  
attaatagtg ttatatactaa tgattgataa ttgtccatga tcattctctat atctaatttg 240  
tgttgtgact attcttattc tattttcttt attatactga aacagtttgt gccttcagtc 300  
tcttgccctca gcacctgggt aatcctttgc ccacacattt ccgggtggct ctgtctctct 360  
cttgccattc tctttctaca cacctgctcc aagttctgac tccactccc tcagcccacc 420  
ccagtgccca caacctctct atctctct 448

<210> 206  
<211> 466  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature



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&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 206

```

ttttcgctcc aggtanncac tctaaacnta aagaaagctc ttctgtccgg ttactttatg      60
cagattgctc ggngatgttga tggatcaggt aactacttaa tgctgacaca taagcaggtt      120
gctcagctgc atccccctgtc tggttactca atcaccaaga agatgccaga gtgggtcctc      180
ttccataaat tcagcatttc tgagaacaac tacatcagga ttacctcaga aatctctcct      240
gaactattta tgcagctggg accacaatac tatttcagta atctgcctcc tagtgaaagt      300
aaggacattc tacagcaagt agtggatcac ctatcccctg tgtcaacaat gaataaggaa      360
cagcaaagtgt gtgagacgtg ccctgaaact gaacagagat gcactctcca gtgactcccc      420
agcaaacaca aggtgcagca ggggtcccaaa ggtagctgga tggctg                        466

```

&lt;210&gt; 207

&lt;211&gt; 341

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 207

```

gggcatnttt gaagacaaac gatgtagtac aattgaaaga acattaaaca ntagaacaaa      60
gggcaagcct ctcaacctgg ccctgccact aattaattgt gaccttanna caaggaggag      120

```

- 182 -

cactgaagtc aaataaaaaca ttccttttcag taaagcacag agcttgagga ngtgcttgag 180  
gaagactgaa attctctgtc caggagggtta aactatatta ttagtaaata ccacaaattt 240  
atcagtccat acaatttcta attagtgttt ctgttcttta gggaggcatg ggtagaacia 300  
atatattaac ttatttttta gactacagac atgctttaat t 341

&lt;210&gt; 208

&lt;211&gt; 405

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 208

gcggataaca atttcacaca ggacgactcc aagtactaca aagccatcga gggcaagtac 60  
tgcttcacca tgtaataata acataaatgc agctacagct gtggctctac gggaaccccg 120  
aaagttaagt tatgcntgaa gtgtgccaga agccccctaa agagccatct tcagttcttg 180  
tgcagccact acgggaactt cgctccaatg tgggtgtctcc caccaaaaat gaagacaatg 240  
gagctcctga gaactccgtt gagaaaccac atgagaagcc agaagcaagg ggctagtaag 300  
ggattatttc tggcttnega ggcaatataa tccccagggg agcagcaggg aaaattaggg 360  
aacanaacnc cagttaacct aaggctttcc ttagggagtg ctenc 405

&lt;210&gt; 209

&lt;211&gt; 295

- 183 -

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 209

```
tgaaattcgc tgaaatactt aatgtggaat aggataatat acttccaatg ccctcaaggc      60
tgtgacctta cagccatttt acatagcaca tcattcctcc tatagggatg aactttttcc      120
tggcacgaaa agtagccgat ctggttgaag ctttgcttat tgtaacaggc ttttatttcc      180
aggtaatatg tcttgaaga ctttaattctg attagagata tagatattac tggaaactaa      240
ttgttttttt tctattgcct ctgctttatc aaagaagtaa aacattttaa tcgta          295
```

&lt;210&gt; 210

&lt;211&gt; 405

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 210

```
ggataacaat ttcacacagg atggattggg cctttacatg ccagctttgc ttgtgaatcc      60
ttgctttttt cctctcatca gccttaagtt taggcgtttg ntgttctcca gggatgtaga      120
cagttnnntt cacaagtcac agttcttccc atanatgagg ccctnntgac ctctgcngga      180
ctttaanaat ctatgcanat atttccgagt nagtggcctn gnttaaattc ttctgngtg      240
tttctttatt ccttaaattg gttggtggga naganganga tgctttggga acccnnnnng      300
nntccttagc gcnnaggatt gcttttaacn aattanncta aaaagncnna cttttcannn      360
```

- 184 -

ccnncnntta cntanacaaa anagcccctt tngngggccg cattn 405

<210> 211

<211> 412

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

<400> 211

gcggataaca atttcacaca ggatggtaaa gggcatatTT ctgaaagcac agatgggaag 60

acgggatttg ttccgtgtcc aggtgattat ggtacctcta tgcgcctggc cggcacntgg 120

ggacagaggc catgaaaatg aatacagcac agcctttgcc tccaagaaac nttaagacct 180

agtagaaatg gcaggctttt aaaacagggtt gttgggatct gatttgggtga gtgcaatgac 240

agagatactc acagcacaaa atgggggaatg agggcgggca ttgggacaca catagcctta 300

aggggcccaa aggccttttag aactgtattc cctattaaaa catgatttgc acagagcaca 360

ttctttgctt tggagacctc agaactcctt actataggcc gggcatgggt at 412

<210> 212

<211> 305

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

- 185 -

&lt;222&gt; ( )..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 212

```

cggataacaa ttccacacag gaccaaacc ancaggcgcc ctggcaccgg ggaggcgagt      60
agttgnactc tgcttgtaga gtccttgagc ccagtttaca gatctggaga gcaggaggcc      120
attnttnngg acaanggctg gaggatggag taggaccag gngctctgcc atcctaggca      180
tcattcaagg tcttttatga acactctaca natgtcctcc tgnaantagc anccgagagc      240
ggcnctcagc tcctttctct nctntntttn gtctgatngc cacacacnta tctgctctctg      300
tggcc                                             305

```

&lt;210&gt; 213

&lt;211&gt; 439

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 213

```

gatacgaaaa atccaattca gcaaaaattat atgggtgttt tcagtacctc tgaagggtgt      60
atatcaagaa ttctcatgct actccttgag aaaacagatt gcgtttttac ctagaaaatc      120
aactgcaagg catttttata accttaccac aagtaaaaaa aatacattga aatatactta      180
ataaatgcag actacattac ttgaaaaatg gtaatacaga atgccacttt taatatttga      240
aaatatgaat ttttggaag aaataatgta aaataaagct tctggtaagg ccttaggcag      300
ttaaatttac atcagtgtaa agtaggatga aaatctgtaa aaaataaaaa caaaaaaaca      360
aacaaaaacc tacacaaaa aaaccctaac atccaccaat gcatacatat tgatctttgt      420

```

- 186 -

gctgggaaaa tctaaagca 439

<210> 214

<211> 393

<212> DNA

<213> mammalian

<400> 214

gtcataaaca aaacagattt gatTTTTTtc ctttatggaa cttaagttct agtgggtggga 60

ggaggacaga aaacagtaaa taactagatt ttgaattgtg ttagcagatg ataactgatg 120

tgggaactta gcaggtagaa ggcaacacaa ggtcaaagaa gccggggatt ccaccttgac 180

tagggagctc agggcaggcc tcactgagaa agcaccactt gcatgaagga ggtgggaaaa 240

gccttcacct gggggaagag ccttccaggc agagggaaca gccaatgcca aggccctaata 300

gccttgacca ctgcctggta tgtccaaaga acaaggagac ctgtgccagc ggctgcagct 360

gagtgaacca gggatgtagg aatgtgtaga ggg 393

<210> 215

<211> 408

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

<400> 215

agcggataac aatttcacac aggactgcta ggtagacaag attagatggc aggtaagagc 60

- 187 -

tctttgaaaa tgaaaacatt ctgctatttg aatgcaaagt gttcttcttt gcctgtgatg 120  
 tttcctaatac tgtgaaatca tacntggacc tcgaagcntg tgtgttaaaa aaaaatagca 180  
 aagtggcttg ggcatgggtg ctcatgcctg taatcctagc actttgagag gctgaggggg 240  
 gtggatcact tgaggccagg agttcgatac cagcctggcc aatatgtgaa acgccatctc 300  
 tactaaaaat acaaaaattt gccagggtgtg gtggcgtcta cctgtagtcc cagctcctcg 360  
 ggaggctgag gcacaagaat catttgaact caggaggcag aggttgca 408

&lt;210&gt; 216

&lt;211&gt; 308

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 216

tagcggataa caatttcaca caggactgct aggtagaagg aaacaagcat ttatcctaata 60  
 tttcttgtat agactgtacc tcagggtatt caaatattga taaggaaaaa gtaattcttc 120  
 atgaaataat tctagctaac aagtagaatt ataataccat catttgcaac cctaatagaaa 180  
 caataggctc gagtggtatc aatggctgct aaaagcattg catgaaaagc cagtgggaaa 240  
 ttttgtaatg gatgaatcta gctggcccca ttgatataac ttaatgttac aaaaaggag 300  
 atgactct 308

&lt;210&gt; 217

&lt;211&gt; 404

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

- 188 -

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 217

tagtgattag cggataacaa tttcacacag gagctagcag acaagctggt tttgtaggtg 60  
cagaatTTTT ggacaatatt tcaagaaact catgagagtg tgTTTTacag gtatgtaggt 120  
ttgtgtgtgt gcacatgtgt gcatgtgtgt cnttaatttg gcatcattat gcacttgTcc 180  
aactccata atactaggtt atagtcaaaa ttTggctTtg gccttatgtg tcctgtggct 240  
taattatgtt ccacttgata catattattt gcttacacag aacagacttt Tgctgtgtag 300  
gccagctTtg ggaggcaaag ctgccaatct gaatctTtct cctcacaag acttcactgg 360  
atagaaacca caaagcaatg tttaaacaag caaagtgtgc taaa 404

&lt;210&gt; 218

&lt;211&gt; 368

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 218

taacctggtg gtttatcatt ctgcgcatcca aagggtactc aatattggtg acatcctctc 60  
ctgataagca aaacngtctt gccatctgta ttcattgtga ataacaacat Tgtcatctac 120  
acagcctctt aagctgaaaa ttttgatatc tgctaactct ttTactaccg tataattaaa 180



- 189 -

cattcattta ttcacacatt tctcnaagct ttgaccatct aaacagatac tggcttatgt 240  
gttangaant ataagaaagt ccttgacctc anggagttta tagnttaatt gganagattg 300  
acagtntatt tccagaaant taaattatat ccatgtgatt ggccgcncat ggctatgcct 360  
tatccacc 368

&lt;210&gt; 219

&lt;211&gt; 426

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 219

taggcattat agaggcnnag agactctttg aaaatgaaaa cattctgcta ttggaatgca 60  
aagtgttctt ctttgccctgt gatgtttcct aatctgtgaa atcatactgg acctogaagc 120  
tgtctattaa aaaaaatagc taagtggctg ggcatggtgg ctcatgcctg taatcctagc 180  
actttgagag gctgaggggg ttggatcact tgaggccagg agttcgatac cagcctggcc 240  
aatatgcgaa accctgcctc ttctaaaagt acaaaaatta gcccggtgtg gtgacatctg 300  
cctgtagtcc caactactcg ggaggctgag gcacaagaat catttgagct caggaggcag 360  
agtttgcagt gagctgggat ggcgccactg cactccagcc tgagtgcag agtgaggctc 420  
tgtctg 426

- 190 -

<210> 220  
 <211> 307  
 <212> DNA  
 <213> mammalian

<220>  
 <221> misc\_feature  
 <222> ()..()  
 <223> "n" is an unknown nucleotide

<400> 220  
 tgtagttaat ctcaagagaa tttggggcctt ccaagttggt cgggccaagg acctgagacc 60  
 tgaagggttg actttacca tttgggtggg agtggtgagc atctgtcccc ctttagatct 120  
 ctgaagccac aaataggatg cttgggaaga ctctagctg tcctttttcc tctccacaca 180  
 gtgctcaagg ccagcttata gtcatatata tcacccagac ataaaggaaa agacacattt 240  
 tttaggaaat gtttttaata aaagaaaatt acaaaaaaaaa aaannccntn tagngagtcc 300  
 naattaa 307

<210> 221  
 <211> 409  
 <212> DNA  
 <213> mammalian

<400> 221  
 agaaggaaca atggtcgtgc caaaaggggc gcggcccggt cagcctattc gctgcactaa 60  
 ctgtgccccga tgcgtgccca aggacaaggc cattaagaaa ttcgtcattc gaaacatagt 120  
 ggaggccgca gcagtcaggg acatttctga agcgagcgtc ttcgatgcct atgtgcttcc 180

- 191 -

caagctgtat gtgaagctac attactgtgt gagttgtgca attcacagca aagtagtcag 240  
 gaatcgatct cgtgaagccc gcaaggaccg aacaccccca ccccgattta gacctgcggg 300  
 tgctgccccca cgtccccac caaagcccat gtaaggagct gagttcttaa agactgaaga 360  
 caggctattc tctggagaaa aataaaatgg aaattgtcaa aaaaaaaaaa 409

&lt;210&gt; 222

&lt;211&gt; 333

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 222

ctntgggtaa tcnccctggc cttggctgcc ctcttggttg tggacaggga agtgccagtg 60  
 gcagcaggaa agtcccttt ctcaagaatg cccatctgtg aacacatggt agagtctcca 120  
 acctgttccc agatgtccaa cctgggtctgc ggcactgatg ggctcacata tacgaatgaa 180  
 tgccagctct gcttggcccg gataaaaacc aaacaggaca tccagatcat gaaagatggc 240  
 aaatgctgat cccacaggag cacctcaagc catgaagtgt cagctggaga acagtgggtg 300  
 gcatggagag gatatgacat gaaaaaaaaa aaa 333

&lt;210&gt; 223

&lt;211&gt; 232

&lt;212&gt; DNA

&lt;213&gt; mammalian

- 192 -

&lt;400&gt; 223

cccttgccag ctgttagcct tagagtgatt gcagtgaaac ctgtttacac accgtgaatc 60  
 cattcccac agtccattcc agttggcacc agcctgaacc atttggtacc tgggtgtaac 120  
 tggagtcctg tttacaaggt ggagtcgggg cttgctgact tctcttcatt tgaggtcaca 180  
 tttttccccc gtggggaaat aaactgactt tggactgctt caaaaaaaaa aa 232

&lt;210&gt; 224

&lt;211&gt; 463

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 224

tcttgttttc ttctctctcc ttaagcctct gctcctcgtc ctgtttgtcc ttcatttggt 60  
 tctctgctgc ctttggttaag cccacgtct cgttgccaaa ctctcagcg tatgcctcat 120  
 cgttggtgat gaggaagttg tcaaagatgg tgccagactt gacctgccag aggtccaggc 180  
 ccagcacgcc aaagttatca taggcataga tacatgggat cgggagaata ctcggggttg 240  
 tcaatttctg ggtggatcca agtgcccttg taatctgggt tgtcgatctg ccggggcttc 300  
 cactcacct tgtactcagg gttctgaatc actgggggtt ccactctcc gtccatctct 360  
 tcatcccagt cctcgggctt cttagcatca gggtcagga tatgctcggg cttgtcccag 420  
 tctcaggct tggagtcgtc ctgtgtgaaa ttgttatccg cta 463

&lt;210&gt; 225

&lt;211&gt; 388

&lt;212&gt; DNA

&lt;213&gt; mammalian

- 193 -

&lt;400&gt; 225

```

cgtcccctga cgagtttat gtaggtccct gggaagctgc atgatgtgga acacgtgctc      60
atcgatgtgg gaactgggta ctatgtagag aagacagctg aggatgcaa ggacttcttc      120
aagaggaaga tagattttct aaccaagcag atggagaaaa tccaaccagc tcttcaggag      180
aagcacgcca tgaacacaggc cgtcatggaa atgatgagtc agaagattca gcagctcaca      240
gccctggggg cagctcaggc tacttgctaa ggcctgagag tttttgcaga aatggggcag      300
agggacaccc ttggggcgtg gcttcctggt gatgggaagg gtcttggtgt taatgccaat      360
aaatgtgcca gctgggcaaa aaaaaaaaaa                                     388

```

&lt;210&gt; 226

&lt;211&gt; 494

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 226

```

ctccttcctg tctaccttaa tcatgaaacc gaatnntngg ggtngtattc tccccaccct      60
canctcctcc tgttctcacn agggatgtga gggaactgaa cnctgggtgcc nngctangng      120
gtangggcct ctccctcact gnnngactgn agctggncct ctgtatacct ganggggtccn      180
tctntntagg gntccttgta nggcttatga ctgtgaatcc ttgatgtcat gattntatgt      240
gacnattcct aggagtccct gcccttagag tntgagcagg gctggacccc aancctctcc      300

```

- 194 -

ctcttccatg gagagaagag tgatctggct tctcctcgga cctgtgngaa tatcattcta 360  
ttaatggntc ccgagacgtt ntttggtgaa ggangnccat ccctgggcat tatctgctat 420  
gctgannagc tectctctgg nontgctnng gggctgnatt tgatatattt ntataannct 480  
tncnccaaaa aaaa 494

<210> 227  
<211> 287  
<212> DNA  
<213> mammalian

<400> 227  
gaatattgta agtcagccct gggacccgag gatttctggg accccgcagt tgggaggagg 60  
aagtagtcca gccttccagg tggcgtgaga ggcaatgact cgttacctgc cgcccatcac 120  
cttgaggaggc ttccctggcc ttgagtagaa aagtcgggga tcgggggcaag agaggctgag 180  
tacggatggg aaactattgt gcacaagtct ttccagagga gtttcttaat gagatatattg 240  
tattttatttc cagaccaata aatttgtaac ttgcaaaaaa aaaaaaa 287

<210> 228  
<211> 300  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

- 195 -

&lt;400&gt; 228

```

caatggtaaa cctcgagaca acaaacaagc aggggtgttt gaaccaacca tagttaaagt      60
taagagtttg aaatttgcaa cagaagctgc aatcaccatt ctcgaattg atgatcttat      120
taaattacat ccagaaagta aagatgataa acatggaagt tatgaagatg ctgttcactc      180
tggagccctt aatgattgat ctgatgttcc ttttatttat aacaatgtta aatgcaattg      240
tcttgtaccn tgagttgagt attacacatt aaagtaaagt acaagctgca aaaaaaaaaa      300

```

&lt;210&gt; 229

&lt;211&gt; 306

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 229

```

gctttggagt tctgcctgga gtggttcaac agtctctggt gcaagtctaa taagagatca      60
ggcntatata tctgcctttg cataatatta tggtagccctt attgatatat ggtaagggtg      120
tactagggga ttaggatgat tgtaagagaa tgagaaagat gaccaaagg ttggtggtag      180
ggaggctttt tcttatttcc aaatacttga gaaattacct tttggtttac aaatctatga      240
tcaacttatt ccattaaata gatacattaa aaaaattaaa aactgattct tctgcaaaaa      300
aaaaaa                                           306

```

&lt;210&gt; 230

- 196 -

<211> 317  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 230  
gagcttgtgc tcaggagtcc agcncgtcca gcctcggggg gtaggtttct gaggtgtgcc 60  
attggggcct cagccttctc tggtgacaga ggctcagctg tggccaccaa cacacaacca 120  
cacacacaca accacacaca caaatggggg caaccacatc cagtacaagc tttacaaat 180  
gttattagtg tcctttttta tttctaatgc cttgtcctct taaaagntat tttatttggt 240  
attattattt gttcttgact gntaatttg aatggtaatg caataaagt cctttgtag 300  
atggcaaaaa aaaaaaa 317

<210> 231  
<211> 279  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 231  
cggntnantt nctgnnggac ccaacnaaac gcaccnnngc tnthattnag gtacactgca 60



- 197 -

tcagcacaga atttactccc ggangcacgg aggtgaaaag ggagtgccct ttaggatcca 120  
 ggttgacncc ttttaagcaca atgaaaatgg agaatacaca gatcatntac actcagctag 180  
 ctgccaaatc anagttttta agcctaaagg tgcagacang aaacanaaaa cttgaccgag 240  
 agaatatgga gaagagaaca gctcatgaaa aaaaaaaaaa 279

&lt;210&gt; 232

&lt;211&gt; 485

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 232

tctgacaang tagnagnagg acatctgtgn cccagattnc cttctacngt ggccgactta 60  
 ccttgtgatt ttatgcaccc tntangaccc cttcatnngt ctncacaaca ccaacagcaa 120  
 atggggcagg ttttacagca gcagaatata caacaaggat caattaattc accctccacc 180  
 caaactttca tgcagactaa tgagcgaagg caggtaggcc ctccttcatt tgttctgat 240  
 tcaccatcaa tcctgttgg aagcccaaat ttttcttctg tgaagcaggg acatggaaat 300  
 ctttctggga ccagcttcca gcagtccca gtgaggcctt cttttacacc tgctttacca 360  
 gcagcacctc cagtagctaa tagcagtctc ccatgtggcc aagattctac tataacccat 420  
 ggacacagtt atccgggata ncccaatcgt cattcagttg tatttgatat atccagagga 480  
 aaaag 485

- 198 -

<210> 233  
<211> 449  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 233  
caccctcttc tgaacacctg ctgcctgggc ttcatagcat tcgcctactc cgtgaagtct 60  
agggacagga agatgggttg cgacgtgacc ggggccagg cctatgcctc caccgccaag 120  
tgcctgaaca tctgggccct gatattgggc atcttcatga ccattctgct catcatcatc 180  
ccagtgttg tcngtccagg cccagcgata gatcaggagg catcattgag gccaggagct 240  
ctgcccgtga cctgtatccc actgtactct atcttcatt cctcgccctg ccccagagg 300  
ccaggagctn tgcccttgac ctgtattcca ctactccc ttccattcct cgccctgtcc 360  
ccacagccc agtcttgcac cagcccttta tctacacgc ttttctacan tggcattaat 420  
aaagtgatat gtttctggaa aaaaaaaaaa 449

<210> 234  
<211> 480  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature



- 200 -

<210> 236  
<211> 345  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 236  
ttcagttcaa ataattaagg ctcttctnga ctgcagtgac ttccccacac attgaaattc 60  
  
atgagggtag tatcctgcag acagtgagaa catgttacia tatctatttg gccagcaaaa 120  
  
atctcatcaa tcaaaccctg ccaaggctac ccttactcag atgctgaacg tcattttcac 180  
  
ccgcatggaa aaccaagtgt tgcaggaggc cagagaactg gaaaaaccaa tccagtcaaa 240  
  
accccagtc cctgtgatcc aagctgcagc aggtatcccc aaagttcggt cgtttgaagc 300  
  
acagtcaggc acaaagcaaa ccaacaactc ccgaaaaaaaa aaaaa 345

<210> 237  
<211> 487  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 237

- 201 -

ctccgnatcg gtcgnaaatg gcanaggtgg angagacact gaagcgactg canagccaga 60

agggagtgcg gggaaatcatc gtcntgaaca cagaaggcnt tcccatnang agcaccatgg 120

acaacccac caccacccan tatgccaacc tcatgcacag cttcatcctg aaggcacgga 180

gcaccgtncg tgacatcaga ccnccagaac gatctcacct tccttctgaa ttcgctccaa 240

gaaaaaatga aattatgggt gcaccaaata aanactatct cctgatngtg attcagaatc 300

caaccgaata agcncctctc ttggctccct gtgtcattcc ttaatttaat gcccccaan 360

aatgttaatg tcaatcatgt cagtggacta ncacatggca gtcgnttgga ccnactcccc 420

caatccantg accgtgtgtg gctgcggttt tttccccacc acggaaccct gtgtgnccac 480

cttccca 487

&lt;210&gt; 238

&lt;211&gt; 211

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 238

aatgacccat agtgtgagaa cttccaacaa gcctcaaagt cccttgagac tccccaatc 60

ctaataaggc atgcgaaatg ttctcatgaa ctaccccaca acacgcctaa aactcaaac 120

acccaaaaat atctctctca atgtcctgan acatgaaccc aaaaagagac ccacaataaa 180

ctcgtgactt gtcccctcga aaaaaaaaaa a 211

- 202 -

<210> 239  
<211> 367  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 239  
ctttggaaag cccaggggca cntgtggcnc cgggttcaca ttggccaagt tatcatgtcc 60  
atccgcacca agctgcagaa caaggagcat gtgattgagg ccctgcgcag ggccaagtcc 120  
aagtttctctg gccgcagaag atccacatct caaagaagtg gggcttcacc aagttcaatg 180  
ctgatgaatt tgaagacatg gnggntgaaa agcggctcat ccagatggc tgtgggggtca 240  
agtacatccc cagtcgtggc cctctggaca agtggcgggg ccctgcgctc atgagggtt 300  
ccaatgtgct gccccctct taatactcac naataaaatt ctacttctg tccgaaaaaa 360  
aaaaaaa 367

<210> 240  
<211> 451  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

- 203 -

&lt;400&gt; 240

```
natgaccagc aactggact ccgaggtggt tcagacattn cagaggggag cagtggccat      60
catcctcccg ccaggagctt ntctgttcct gcgcataatag actgtacgtt atgaanaata    120
cccanganga ctttgtgact gncacttgct gctttttctg cgcttcagta acaagtgttg     180
gcaaactata ttttctcctg gcccttgctt gctggagatc ancatgcctg tcctttcagt     240
ctgatccatc catctctctc ttgcctgagg ggaaagagag atgggccacn gcagagaaca     300
gaactggagg cagtccatcn agggaaatgg cgactgtgcg gccataccnn gcgaaacgna     360
nggantgcta tcnagangc ntttatcang gtgtggncnn tgcacancnt gtntcaacng     420
tttantaag ccttatnnnc nttaaaanaa a                                     451
```

&lt;210&gt; 241

&lt;211&gt; 361

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 241

```
catctccctc cttttcttc tctctgtggt ggagaacca gctgcagagt aggcagctgc      60
ctccaggatg anttacttga aatttgctt gagtgtgtta cctcctttcc aagctcctcg     120
tgataatgca gacttcttgg agtacaacaa caggatttgt aattccttac tgtaacgnag     180
```

- 204 -

tttacagcca gggcatgatg ctttggtgtg gccancactc tgaaactgag aaatgttcan 240  
aatgtactgg aaagatgatc anctattttc aacataactt gaaggcatat gctggcccat 300  
aaacaccctg taggttcttg atatttataa taaaacttgg tgttttgtaa aaaaaaaaaa 360  
a 361

<210> 242  
<211> 429  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 242  
tccttnact ttcagtagca ctcgttttac atatgcttat aaaagaagtg atgtatcagt 60  
aatgtatcaa taatcccagc ccagtcaaag caccgccacc tgtaggcttc tgtctcatgg 120  
taattactgg gcttggcctc tgtaagcctg tgtatgttat caatactgtt tcttcctgtg 180  
agttcatta tttctatctc ttatgggcaa agcattgtgg gtaattgggtg cttggctaac 240  
attgcatggc cggatagaga agtccagctt gtgagtctct ccccaaagca gcccacagt 300  
ggagcctttg gcttgggaagt ccatgggcca cctgttctt gtccatggag gactccgagg 360  
ggttccaagt atactcttaa gacccctctg tttaaaaata tatattctat gtatgcgtaa 420  
aaaaaaaaa 429



- 205 -

&lt;210&gt; 243

&lt;211&gt; 482

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 243

atgatgtaga tgacactgat gattctcacc agtctgatga gtctcaccat tctgatgaat 60  
ctgatgaact ggtcactgat tttcccacgg acctgccagc aaccgaagtt ttcactccag 120  
ttgtccccac agtagacaca tatgatggcc gaggtgatag tgtggtttat ggactgaggt 180  
caaaatctaa gaagtttcgc agacctgaca tccagtaccc tgatgctaca gacgaggaca 240  
tcacctcaca catggaaagc gaggagttga atgggtgcata caaggccatc cccgttgccc 300  
aggacctgaa cgcgccttct gattgggaca gcccggtggga aggacagtta tgaaacgagt 360  
cagctggatg accagagtgc tgaaaccac agccacaagc agtccagatt atataagcgg 420  
aaagctaata atgaagcatg acattccgat gtgattgata gtcaggactt tcaaagtcac 480  
cg 482

&lt;210&gt; 244

&lt;211&gt; 241

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 244

cttgaactcc tggccccagt gagtgtaatg tctcccatgc caaagtactt ttatcttaaa 60  
ttgcttatttt ttttgtttat ttttttaact gactctgttt acaaaattaa ccttttatct 120  
agtgcagct agattgtatc acatttgta tctatggaca actgattttt agttgtttta 180  
tatggtaagt ttattattgt ttttccttat ttaagaaaca ggatctgagt aaaaaaaaaa 240

- 206 -

a 241

&lt;210&gt; 245

&lt;211&gt; 334

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 245

agattgaaaa acgagacaaa tatagccgga gacgtcctta taatgatgat gcagatatcg 60

actacattaa tgaaaggaat gccaaattca acaagaaagc tgaaagattc tatgggaaat 120

acacagctga aattaaacag aatttggaag gaggaacagc tgtctaatacc cttcaagaac 180

tgtttataga agcttgagaa tggggtaaaa atttctgcta gcaaaatcaa gttctttttg 240

aaattttatc agtaatccag aatttagtag tccatgcctt ctactcagc atttagaaat 300

aaaaatgtgg tttcttaaac gtaaaaaaaaa aaaa 334

&lt;210&gt; 246

&lt;211&gt; 286

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 246

ttgacctaaa cttccaggca ggattcttaa tgaaaaaaga ggtacaggat gaggagaaaa 60

acaagaaatt tggcctttct gtgggccatc acttgggcaa gtccatccca actgacaacc 120

agatcaaagc tagaaaatga gattccttag cctggatttc cttctaacat gttatcaaat 180

ctgggtatct ttccaggctt cctgacttg ctttagtttt taagatttgt gtttttcttt 240

ttccacaagg aataaatgag agggaatcga ctgtaaaaaa aaaaaa 286

- 207 -

&lt;210&gt; 247

&lt;211&gt; 481

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 247

tgantagttg acggctagcg gggagctagt tccgcgcgat agttatagtg ttgatgtgtg 60

aacgctgacc tgtcctgtgt gctaagagct atgcagctta gctgaggcgc ctagattact 120

agatgtgctg tatcacgggg aatgaggtgg ggggtgcttat tttttaatga actaatcana 180

gcctcttgag aaattgttac tcattgaact ggagcatcaa gacatctcat ggaagtggat 240

acggagtgat ttggtgtcca tgcttttcac tctgaggaca tttaatcgga gaacctnctg 300

gggaattttg tgggagacac ttgggaacaa aacagacacc ctgggaatgc agtttgcaag 360

gcacaagatg ctgccaccag tgtcenntga ccaccctggt gtgactgctg acttgccagc 420

gtggtacctc catgctgcag gctccatcta atgagacacc aacncactgn cactgttaca 480

a 481

&lt;210&gt; 248

&lt;211&gt; 266

&lt;212&gt; DNA

&lt;213&gt; mammalian

- 208 -

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 248

nccctgcccc ccccaacacg tgcttatgta acccgtggaa agcggcccct gctgcccctc 60

cacacacaca tacacactca ctgatctaca gcccctgttc ggcgtcagag tccccactag 120

accagtgga aggggttaga gaccaagtag gggccagttt ccaattcacc ctgtcaggga 180

gtgagnngga tctgacgttc cttgtgactt aagggtccgg cttgggaatt aaagtttggt 240

tctggccttt agcctaataaa aaaaaa 266

&lt;210&gt; 249

&lt;211&gt; 490

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 249

tctcttcccg cctctgatga gcagttgaaa tctggaactg cctctgttgt gtgcctgctg 60

aataacttct atcccagaga ggccaaagta cagtgggaagg tggataacgc cctccaatcg 120

ggtaactccc aggagagtgt cacagagcag gacagcaagg acagcaccta cagcctcagc 180

ancaccctnn cncttgagca aagcagacta cgagaaacac aaagtctacg cctgcgaagt 240

- 209 -

cacccatcag ggcctgagct cgcccgtcac aaagagcttc aacaggggag agtggttagag 300  
ggagaagtgc cccacacctgc tcttcagttc cagcctgacc cctccccatc ctttggcctc 360  
tgaccctttt ttcacagggg acctaccctt attgcggcct tcagctcatn tttacctnac 420  
ccctctcttc ttggtttaat tatgctaatt ttggaggaaa tgaataatna ngtgatcttt 480  
naaaaaaaaaa 490

&lt;210&gt; 250

&lt;211&gt; 491

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 250

tcacctctgt cttcatcttc ccgccatctg atgagcagtt gaaatctggg aactgcctct 60  
gttgtgtgcc tgctgaataa cttctatccc agagaggcca aagtacagtg gaaggtggat 120  
aacgccttcc aatcgggtaa ctcccaggag agtgtcacag agcaggacag caaggacagc 180  
acctacagcc tcagcagcac cctgacgcnt gagcaaagca gactacgaga aacacaaagt 240  
ctacgcctgc gaagtcaccc atcagggcct gagctcgccc gtcacaaaga gcttcaacag 300  
gggagagtgt tagagggaga agtgcccca cctgctcctc agttccagcc tgacccccctc 360  
ccatcctttg gcctctgacc ctttttcac aggggacctt cccctattgc ggtcctccag 420  
ctcatcttta cctacccctt cctctccttg ctttaatttg taatgttgga ggagatgaat 480

- 210 -

aataaaagtga c

491

&lt;210&gt; 251

&lt;211&gt; 484

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 251

ccctctgtct tcatcttccc gccatctgat gagcagttga aatctgggaa ctgcctctgt 60

tgtgtgcctg ctgaataact tctatcccag agaggccaaa gtacagtggg aggtggataa 120

cgccctccaa tcgggtaact cccaggagag tgtcacagag caggacagca aggacagcac 180

ctacagcctc agcagcacc tgacgcttga gcaaagcaga ctacgagaaa cacaaantct 240

acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc ttcaacaggg 300

gagagtgtta gagggagaag tgccccacc tgctcctcag ttccagcctg accccctccc 360

atcctttggc ctctgaccct ttttccacag gggacctacc cctattgcgg tcctccagct 420

catctttacc tcacccccct cctcctcctt ggctttaatt atgctaattg tggaggagat 480

gaaa 484

&lt;210&gt; 252

&lt;211&gt; 262

&lt;212&gt; DNA

- 211 -

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 252

gcagtttnta ttaaananta gtgtgaaatg aatgaaatag aagaaggtaa aaataaggaa 60

caagcaataa acagttcaga gaacataatg gacatcaatg aggaaccagg aacaactgaa 120

ggtgaagaaa tcctgagtca agtagcactg aagaaatgga ggtcagaagt gtggtggctg 180

atactgacca aaaggcttta ggaagtgaag ttcaggatgc ttctaaagtc actactcana 240

tagataaaga gaaaaaaaaa aa 262

&lt;210&gt; 253

&lt;211&gt; 359

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 253

tctcaaggac ttcaaactct actcccctaa tagctttttg atgacttcta gcaagcctcg 60

ctaacctcgc cttaccccc actattaacc tactgggaga actctctgtg ctagtaacca 120

cgttctcctg atcaaatatc actctcctac ttacaggact caacatacta gtcacagccc 180

- 212 -

tataactccct ctacatatattt accacaacac aatggggctc actcaccac cacattaaca 240

acataaaacc ctcatcaca cgagaaaaca cctcatgtt catacaccta tccccattc 300

tcctcctatc cctcaacccc gacatcatta cggggtttc ctcttanaaa aaaaaaaaaa 359

<210> 254

<211> 210

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

<400> 254

catagnccca tcaccctcct taacctctac ttctacctac gcctaattcta ctccacctca 60

atcacactac tccccatatac taacaacgta aaaataaaat gacagtttga acatacaaaaa 120

cccaccccat tcctcccccac actcatcgcc cttaccacgc tactcctacc tatctcccct 180

tttatactaa taatcttaga aaaaaaaaaa 210

<210> 255

<211> 257

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide



- 213 -

<400> 255  
 gtgcgancag gggcantagg gtgggggttnc cctgggaagc agctggctag tggcttatta 60  
 cttgtgactg gacctctggt cctcaatcga gttcctctac gaagaacaca ccagaaattt 120  
 gtcattgcca cttcaaccaa aatcgatatc agcaatgtaa aaatcccaaa acatcttact 180  
 gatgcttact tcaagaagaa gaacttgtgg aagcccagac accaggaagg tgagacttcg 240  
 acacagaaaa aaaaaaa 257

<210> 256  
 <211> 392  
 <212> DNA  
 <213> mammalian

<220>  
 <221> misc\_feature  
 <222> ()..()  
 <223> "n" is an unknown nucleotide

<400> 256  
 tgcgctccag gcatgcttag gtgccttcng aaagccccag ggcactgtgg ccagggttca 60  
 cattggccaa gttatcatgt ccatccgcac caagctgcag aacaaggagc atgtgattga 120  
 ggccctgcgc agggccaagt tcaagtttcc tggccgccag aagatccaca tctcaaagaa 180  
 gtggggcttc accaagttca atgcttgntn aatttgaaga catggtggnt tgaaaagcgg 240  
 ctcatccan atggctgtgg ggtcaagtac atccccagtc ntggccctct ggacaaagtg 300  
 gcgggccctg cactcatgag ggcttccaat gtgcttgccc ccctcttaat actcaccaat 360  
 aaattctact ttctgtcca gaaaaaaaaa aa 392

- 214 -

&lt;210&gt; 257

&lt;211&gt; 500

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 257

ttgctttatg aaactgcnct cctgtcttct ggcttcagtc tggaagatcc ccagacacat 60

gctaacagga tctacaggat gatcaaactt ggtctgggta ttgatgaaga tgaccctact 120

gctgatgata ccagtgctgc tgtaactgaa gaaatgccac cccttgaagg agatgacgac 180

acatcacgca tggaanaant agactaatct ctggcttgag ggatgactta cctgttcagt 240

actctacaat tcctctgata atatattttc aaggatgttt ttctttattt ttgttaatat 300

taaaaagtct gtatggcatg acaactactt taaggggaag ataagatttc tgtctactaa 360

gtgatgctgt gataccttag gcactaaagc agagctagta atgctttttg agtttcatgt 420

tggtttattt tcacagattg gggtaacgtc actgtaaacg tatgtacatg atgtacttgt 480

gtgggctaag tggtanctgc 500

&lt;210&gt; 258

&lt;211&gt; 375

&lt;212&gt; DNA

&lt;213&gt; mammalian

- 215 -

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 258

accatnaatc ctntctcang gacttcaaac totactccca ctaatacgtt ttttgatcga 60

cttctagcaa gcctcgctaa cctcgctta cccccacta ttaacctact gggagaactc 120

tctgtgctag taaccacgtt ctctgatca aatatcactc tcctacttac aggactcaac 180

atactagtca cagccctata ctccctctac atatttacca caacacaatg gggctcactc 240

accaccaca ttaacaacat aaaaccctca ttcacacgag aaaacaccct catgttcata 300

cacctatccc ccattctcct cctatccctc aaccccgaca tcattaccgg gttttcctct 360

tacaacaaaa aaaaa 375

&lt;210&gt; 259

&lt;211&gt; 376

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 259

ttcatcttat cctaaccaaa tgagaataat gacatattga aaacagcctc tagcttcagg 60

ctgggcacgg tggctcacag ctataatctc agcactttgg gaggctgagg tgggagaatt 120

- 216 -

gcctgagccc aggagttcaa gaccagcttg tgcaatatag ggagactccg gctctacaaa 180  
 aaagagtttt tcaaaattag ccaggcngaa gtggcacaca tctgtgggcc caggtgctca 240  
 ggaagctgag gtgggaggat cacttgagcc caattcaaag ctgcagtgag ctngtaattg 300  
 catcacttgc actccaacct gggcaacaga gtaatgacct tgtcttaaaa aaaaataaaa 360  
 acataaaaaa aaaaaa 376

&lt;210&gt; 260

&lt;211&gt; 194

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 260

gttngcgggt gaggaacgcg gccaacagga cgggctatgt accgtccaac tacgtggagc 60  
 ggaagaacag cctgaagaag ggctccctcg tgaagaacct gaaggacaca ctaggtgagt 120  
 gtttcaccct cgagagagga agccttgtgc atttcaaggg acacatgttc gtctttctag 180  
 ttagtttgct gttt 194

&lt;210&gt; 261

&lt;211&gt; 406

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

- 217 -

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 261

tgatttaata cgactcacta tagggctttt tttttttgan cgaagggaaa attcccgttt	60
tttatttttg taaangtata catatatagn catcgacatg acagatgagg aancccatga	120
agtttcccac tagtcanata tncattttca cttcatcana agcacctgat atctacngct	180
aatttataat tanatnctgt ttcaatgaan ccaaaangan ccctacaagt tcctataanc	240
aaaagcttcc aangtactag gacagtcagt aattaangca tcatttcana ggattatggc	300
tgttccttaa gaagtgaag ttcaancctg tcaacaccag aggtaatcat tttatattaa	360
tttatccgna taccattaaa atctttatct gagtatacat atgaaa	406

&lt;210&gt; 262

&lt;211&gt; 391

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 262

attagcggat aacaatttca cacaggatgg attggtccga agggccacgt gatctcccag	60
atagcacagg aggcaggcca tgacctcatg gacatcttcc tctgcgatgt tgacatccgc	120
ctctctgtga agctcctcaa gtgaccaccc tctactgacc ctcccagggc attccagctc	180
aagctgctgg caggaactga ccagttctgt ccttggctgg ggaccctcca ggcactggtg	240
agagacatga aactgactg gccactagct tggcctggcc ctgttgagtc tgcacagtcc	300
ctgcccagct gtgtcttctg ttggaagaag gaacctgcct tagctcagtt tccaggtggt	360

- 218 -

tcctctgcct ggcaccacag ctacaaggtg t 391

<210> 263

<211> 307

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

<400> 263

aagaacaggc aggaggtaaa aagatgatgg gaaggtgtgg tagactaagg gcccggttat 60

tgggtgaaat ttgagattgt aggccaactg tattttcaag cttctgaact taggcaaaat 120

attcatcgca aagtctctag ctgtcatatt ttctcaccc aaattacgtt tccacgagat 180

tatttatata tagttggtct atctctgcag tccttgaagg tgaagttgtg tgttactagg 240

cttgtgtttt gggatgtcan cagtggcctg aagtgagttg tgcaataaat gttaagttga 300

aacctca 307

<210> 264

<211> 192

<212> DNA

<213> mammalian

<400> 264

tcgagggccc tctctcagtt ctgggaggat gactccagtc cctgcacgcc ctggcacacc 60

cttcacggtt gctacccagg cggccaagct ccagaccgtg ccagacccag gtgccccagt 120

- 219 -

gcctttgtct atattctgct cccagcctgc caggcccagg aggaaataaa catgccccag 180

ttgctgatct ca 192

<210> 265

<211> 243

<212> DNA

<213> mammalian

<400> 265

tctgttggag atgaccagga aattcacatc tatgattgtc caatttaaac atcaaagtct 60

ccaggcttat gctgcaaaga gaatgtacgg attgatcatg acattcctta ctttcttagg 120

cttgtttaaa agaaatatag catttattgt agcaaagact taaattttgt agatacaata 180

tgaatctttt catgttttat tggaaatgct gttcatactt taacataaag ctttcttaat 240

gca 243

<210> 266

<211> 400

<212> DNA

<213> mammalian

<400> 266

gataacaatt tcacacagga tacaacgagg ggacgtaacg gaggcagggt ggagccgctg 60

ccgtcgccat gacccgcggt aaccagcgtg agctcgcccg ccagaagaat atgaaaaagc 120

agagcgactc ggttaaggga aagcgccgag atgacgggct ttctgctgcc gcccgcaagc 180

agaggggctc ggagatcatg cagcagaagc agaaaaaggc aaacgagaag aaggaggaac 240

ccaagtagct tttgtggctt tcgtgtccaa ccctcttgcc cttcgctgt gtgcctggag 300

- 220 -

ccagtccac cagctcgcg tttcctcctg tagtgctcac aggtcccage accgatggca 360  
ttccctttgc cctgagtctg accgggtccc ttttgtgctt 400

<210> 267  
<211> 394  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 267  
gtgatttaat acgactcact atagggtttt ttttttttgc tgggtnccaa atttctttat 60  
ttgaaggaan ggtncaaatc aaanaactta agnggatgtt tnggtncaac tnatanaaaa 120  
ggtaanggaa nccccancat gcatgcnctt gccttgngga ccaggaagc cccccacgg 180  
ntatggggaa attacccoga ggcttacctt ncattatcac tggtttccca gggngggctn 240  
gccaaanana tattccccca acccanatto gggcgctcc catcttgccc aagttgncca 300  
cgcggtcccc ccaattcttt tgancgctt nccccctgct catncnggaa gngngcccca 360  
nggnanccnc accaannggg gnnccattttt nccc 394

<210> 268  
<211> 343  
<212> DNA  
<213> mammalian



- 221 -

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 268

```
ggtccttata ccgatgtcnc ctctgccttt tgtttttcag cttcagagaa gaccaatata      60
atcccaggga cctgggtctc tgggagagga aggaagaggg agggagcaaa gagattgggg      120
tatgtccctt gtagtacact cttacctctt acttcctaga ctttgatttc tccggcagcc      180
cagatgttca gttctcttgg cccctctcta ccccttactg ggatctgggtt ttcattttcc      240
ggtccttttg ccatacacag ttacagagat cagtcaaadc cataccacca cttgagatct      300
cattttattgc cacagatgca caaaataaat aaccctaaat cgc                        343
```

&lt;210&gt; 269

&lt;211&gt; 279

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 269

```
caatgcccgg ggataaccag cgttatcaac cagaagctaa aggatgatga ggttgctcag      60
ctcaagaaaa gtgcagatac cctgtgggac atccagaagg acctaaaaga cctgtgacta      120
gtgagctcta ggntgtagaa atttaaaaac tacaatgtga ttaactcgag cctttagttt      180
```

- 222 -

tcatccatgt acatggatca cagtttgctt tgatcttctt caatatgtga atttgggctc 240

acagaatcaa agcctatgct tggtttaatg cttgcaatc 279

<210> 270

<211> 209

<212> DNA

<213> mammalian

<400> 270

tgaagatatt tgtcttcaga attaaaactg cccttaattt taatatacct ttcaatcggc 60

cactggccat ttttttctaa gtattcaatt aagtgggaat tttctggaag atggttagct 120

atgaattaat agagtttgct taatcatttg taattcaaac atgctatatatt ttttaaaatc 180

aatgtgaaaa catagactta tttttaaat 209

<210> 271

<211> 319

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

<400> 271

gtntntcagg acnctctctt tgcttcaagc aagcgaaaac tagaggaggt gctctctact 60

gagggggctg aagaaaatgg caacagcgac aagaagaaga aggccaagcg agactagcag 120

tcatccagac cctgcccacc tagattgttt tttagaccct ccggacctga gactgagttt 180

- 223 -

tgtctttttc ctttagcctt agcagtgggt atgaggtgtg cagggggagc ttgggtggct 240  
tcaactccgcc cattccaaag agggctctcc ctccgcactg cagccgggag cctntgctgt 300  
tttgntgggn ggagggaag 319

&lt;210&gt; 272

&lt;211&gt; 296

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 272

caaagccagg cagaccgtcc tcttgcctg ctgggatggc tgtcttggt gtgcttgtgg 60  
ctatggctgt ggttcgtggg atgttcagct ggaaaccacc tgccactgcc agtgcagtgt 120  
ggtaggactgg accctgcccg ctgctgccac ctgacctgac agggaggagg ctgagaactc 180  
agttttgtga ccatgacagt aatgaaacca ggggcccaac caagaaatct actcaaactg 240  
cccacttcat ttgttccatt cctgattctt gggtaataaa gacaaacttt gcaaaa 296

&lt;210&gt; 273

&lt;211&gt; 316

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 273

ttcagatttc ttgctttggg ttgcatttcc ctagtataat tntagcaagt tgacctcaga 60

- 224 -

gttcctgtat cagggagatt gtctgattct ctaataaaag acacattgct gaccttggcc 120  
ttgccctttg tacacaagtt cccaggggtga gcagcttttg gatttaatat gaacatgtac 180  
agcgtgcata gggactcttg ccttaaggag tgtaaacttg atctgcattt gctgatttgt 240  
ttttaaaaaa acaagaaatg catgtttcaa ataaaattct ctattgtaaa taaaattttt 300  
tctttggatc ttggca 316

&lt;210&gt; 274

&lt;211&gt; 211

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 274

tagtataatt ctagcaagtt gacctcagag ttctgtatc agggagattg tctgattctc 60  
taataaaaga cacattgctg accttggcct tgccctttgt cacaagttcc cagggtgagc 120  
agcttttgga tttaatatga acatgtacag cgtgcatagg gactcttgcc ttaanggagt 180  
gtaacttgat ctgcatttgc tgatttggtt t 211

&lt;210&gt; 275

&lt;211&gt; 484

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

- 225 -

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 275

```
ccctctgtct tcattctccc gccatctgat gagcagttga aatctgggaa ctgcctctgt      60
tgtgtgcctg ctgaataact tctatcccag agaggccaaa gtacagtgga aggtggataa      120
cgccctccaa tcgggtaact ccagggagag tgtcacagag caggacagca aggacagcac      180
ctacagcctc agcagcacc tgacgcttga gcaaagcaga ctacgagaaa cacaaantct      240
acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc ttcaacaggg      300
gagagtgtta gagggagaag tgccccacc tgctctcag ttccagcctg acccctccc      360
atcctttggc ctctgaccct tttccacag gggacctacc cctattgagg tctccagct      420
catctttacc tcacccccct cctcctcctt ggctttaatt atgctaattg tggaggagat      480
gaaa                                          484
```

&lt;210&gt; 276

&lt;211&gt; 415

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 276

```
taanttatgg atccagattg ttctgagaga cgaagatact tgctgctgat agaggtgaaa      60
```

- 226 -

acgagattga tccgtctggg gttttacggt gtgcactggg tgctgcacag acttgtcaag 120  
gtttgctacg tcctctgggc atctgcaaaa ggcctgctc tctggagtgt tgtatatagt 180  
gtagcaaaag agtatattata catcccacca atcaaaacac agcttttatt acctcatgcg 240  
aactcataca accaatagaa tttcaacatg ttctgtagct taaaagtgt cacttactac 300  
cttttgaaca atactccoct ggaagttggc nctttcntat ctttttgcac cttnggaatt 360  
aacctntttg nttcccttca taaaangaan ggcattgga atcttttaaa aaaaa 415

&lt;210&gt; 277

&lt;211&gt; 389

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 277

ctgcccggta ctatttttagg gggcccgnat gaaaataatg aggtcctttg aggagagatc 60  
ttctaaaatc cacattagt atactgaatt attgagagtg acaaactttt ttatcttcac 120  
ccataataaa ctttttttat cttcactttg ttagcaaatc caaagaaatg tggaattttt 180  
agtttagcag attcaaaatg tagaaaacag ttaccttca tatgacatat ttatatgcac 240  
tatttaagct ttgaggtgta gccatttaa attcttcttt tgagatttcc aaatacatta 300  
tatccatctc acaatcccc ccacgtctcc aaatttttgc atgggtttac cattgnocca 360

- 227 -

ttctgaccct cattctttct tttctaagt 389

<210> 278

<211> 302

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

<400> 278

ctttttccct gcgcngtgga cctgagaact ccgccgtgtg ttcaacgact gccgtgacat 60

cattcagcgc atgcaccttc gtcagtaga gctgctctaa gaagggaacc cccaaattta 120

attaaagcct taagcacaat taattaaaag tgaaacgtaa ttgtacaagc agttaatcac 180

ccaccattan ggcatgatta acaaagcacc tttcccttcc ccgagtgat tttgcgaaac 240

ccccttttcc cttcagcttg ctttagatgt tcccaaattt agaaagctta aggcgggcct 300

ac 302

<210> 279

<211> 340

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

- 228 -

&lt;400&gt; 279

aggaacacga cgacctacaa taaaaagtac cagtactatt ccaataaaca ctgcagaggg 60  
agcacccttc gttgctgagt cccctcttcc ctggaaacct tccaccaggt gctgaatttc 120  
cctctctcat accctccctc cctaccctaa ccaagttcct tggccatgca gaaagcatcc 180  
ctcacccttc ctagaggcca ggcaggagcc cttctatacc caccagaat gagacatcca 240  
gcagatttcc agccttctac tgnctctcct ccacctcact tccgtgctta accaaagaag 300  
ctgtctccgg gggggtctct ttcttgaata aagcatttag 340

&lt;210&gt; 280

&lt;211&gt; 434

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 280

cagaaatgct acccagcatc ttaaaccagc ttggtgcgga tagtctgact agtttaagga 60  
gactggccga agctctgcc aaacaatctg tggatggaaa agcaccactt gctactggag 120  
aggatgatga tgatgaagtt ccagatcttg tggagaattt tgatgaggct tccaagaatg 180  
aggcaaactg aattgagtca acttctgaag ataaaacctg aagaagttac tgggagctgc 240  
tattttatat tatgactgct tttaagaaa tttttgttta tggatctgat aaaatctaga 300  
tctctaatat tttaagccc aagccccttg gacactgcag ctcttttcag tttttgctta 360  
tacacaattc attctttgca gctaattaag ccgaagaagc ctgggaatca agtttgaaac 420  
aaagattaat aaag 434



- 229 -

&lt;210&gt; 281

&lt;211&gt; 461

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 281

```
atctgctcat tatttcagag gggaaaccta gcaaactaag agtgataagg ggccctacta      60
cactggccttt tttaggctta gagacagaaa ctttagcatt ggcccagtag gtggcttcta      120
gctctaaatg tttgccccgc catccctttc cacagtatcc ttcttcctc ctnccctgtc      180
tctggctgtc tcgagcagtc tataagagtg catctccagc ctatgaaaca gcttgggtct      240
ttggccataa gaagtaaaga tttgaagaca gaaggaagaa cctcaggag taagcttcta      300
gcccccttca gctttctaca cccttctgcc ctctctccat tgctgcacc ccaccccagc      360
cactcaactc ctgcttgntt ttccttnggc catgggangg ttaccagtaa aatccttgct      420
aggntgatgt gggcccnat tcctttaata accattgtga c                               461
```

&lt;210&gt; 282

&lt;211&gt; 213

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

- 230 -

<400> 282  
catccgcac gaacattggg gtttctncaa aatgggtgtgt gtcatacntt cttttgggag 60  
gggggttngt tttcttctgt ttattttctg agactcctac aggagccaaa tttgtaattt 120  
agagacactt aattttgtta atcctgtctg ggacacttaa gtaacatcta aagcattatt 180  
gctttagaat gttcaaataa aatttcctga cca 213

<210> 283  
<211> 422  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 283  
gcacctcnt acctgtcagc ctgagtatgg gcaatggcgt ttagtttgc aaaaccagac 60  
acatagaggc caggtttccc ccgctcaaca ctaggccact gtgcctgcca ctgctgtctg 120  
caaatgcagg ttcttggggc tctgggtggt ttgtccaatg gctaagcttt cccaggaat 180  
gggtaacntg gaaaaatgta ggaattacat atgattccat caatgacagt tttcctatta 240  
aaacataact tgttaaagca tagagcttag ttcaagagta aacatttcta aaaaagaggt 300  
agaagcccct acctactgac tggcatcaca aacactgccc tgaaatgcca actcatttca 360  
aatactgctc tagacaactg ggccctgcat ctgctgcaag gaacatccct tactttccca 420

- 231 -

tc 422

&lt;210&gt; 284

&lt;211&gt; 447

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 284

gctcttg nnc gccactggcg gtcctgaaaa acagatgact tgggcaaagg tggaaatgaa 60

gaaagtacaa agacaggaaa cgctggaagt cgtttggtt gtggtgtaat tgggatcgcc 120

caataaacat tcccttg gat gtagtctgag gcccttact catctgttat cctgctagcn 180

tgtagaaatg tatcctgata aacattaaac acttgtaatc ttaaaagtgt aattgtgtga 240

ctttttcaga gttgctttaa agtacctgta gtgagaaact gatttatgat cacttggaag 300

atttgtatag ttttataaaa ctcagttaaa atgtctgttt caatgacctg tattttgcc a 360

gacttaaadc acagatgggt attaaacttg tcagaatttc tttgtcattc aagcctgtga 420

ataaaaaccc tggttgactt attatga 447

&lt;210&gt; 285

&lt;211&gt; 479

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

- 232 -

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 285

```
ccncctcnn cgtnnggggg agacngaana accttctccg ctgacctggt tgtggggctg      60
tgcaactgggc agatcaagac tgggtgccct tgccgatctg agcgcttggc caagtacaac      120
cagctcctca gaattgaaga ggagctgggc agcaaggcta agtttgccgg caggaacttc      180
agaaaccct tggccaagta agctgtgggc aggcaagccc ttcggtcacc tgttggttac      240
acagaccct cccctcgtgt cagctcaggc agctcgaggc ccccgaccaa cacttgagg      300
ggtccctgct agttaagcgc cccaccgccg tggagttcgt accgcttct tagaacttct      360
acagaagcca agtccctgg agccctgttg gcagctctag ctttgagtc gtgtaattgg      420
ccaagtcatt gtttttcgct cgcttccacc aagtgttaga gtatgtagcc tcgtgtatc      479
```

&lt;210&gt; 286

&lt;211&gt; 459

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 286

```
tncncctccc atttttgaac atcccaagac tttccggaca gaacgtcctg tcaactcagc      60
tgccctctcc cccaactatg accatgtggt cctgggcggt ggtcaggaag ccatggatgt      120
```

- 233 -

aacccaacct ccaccaggat tggcaagttt gaggccaggt tcttccattt ggcccttgaa 180  
gaagagtttg gaagagtcaa gggtcacttt ggacctatca acagtgttgc cttccatcct 240  
gatggcaaga gctacagcag cggcggcgaa gatggttach gtccgtatcc attacttcga 300  
cccacagtac ttggaatttg agtttgaggc ttaagaagct ggatctcctg ccgggcgtgg 360  
tggctcatgc ctgtaatccc accacttttt ttttaagyca ggcggtacac ctgaggtcag 420  
gagtttaaga ccagcctgac caacatggag aaacctcgt 459

&lt;210&gt; 287

&lt;211&gt; 457

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 287

cctaccaatg tttggggatg aanncggtt tgctcccaac atcctggaga ataaagaagg 60  
cctggagctg ctgaagaccg ctattgggaa agctggctac actgataagg tggctcatcg 120  
catggacgta gcggcctccg agttcttcag gtctgggaag tatgacctgg acttcaagtc 180  
tcccgatgac ccagcaggt acatctcgcc tgaccagctt ggcatgacct gtacaagtcc 240  
ttcatcaagg actaccaggt ggtgtctatc gaagatccct ttgaccagga tgactgggga 300  
gcttggcaga agttcacagc cagtgcagga atccaggtag tgggggatga tctcacagt 360

- 234 -

accaacccaa agaggatcgc caaggccgtg aacgagaagt cctgcaactg cctcctgctc 420

aaagtcaacc agattgctcc gtgaccgagt ctcttcc 457

<210> 288

<211> 492

<212> DNA

<213> mammalian

<400> 288

gctccgtgac gagtctcttc aggcgtgcaa gctggcccag gccaatggtt ggggcgtcat 60

ggtgtctcat cgttcggggg agactgaaga taccttcata gctgacctgg ttgtggggct 120

gtgcactggg cagatcaaga ctggtgcccc ttgccgatct gagcgcttgg ccaagtacaa 180

ccagctcctc agaattgaag aggagcttgg gcagcaaggc taagtttgcc ggcaggaact 240

tcagaaaccc cttggccaag taagctgtgg gcaggcaagc ccttcgggtca cctgttggct 300

acacagaccc ctcccctcgt gtcagctcag gcagctcgag gcccccgacc aacacttgca 360

ggggtccttg ctagttagcc gccccaccgc cgtggagttc gtaccgcttc ttagaacttc 420

tacagaagcc aagctccctg gagccctggt ggcagctcta gctttgcagt cgtgtattgc 480

ccaagtcatt ga 492

<210> 289

<211> 409

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

- 235 -

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 289

```
tnaggcngcc tgacttnccg tggctccaca gctctagggg cctgctcctc taatcacagt      60
gggtttttgtg aggctctgtg gccagagca gacctgcata tctgagcaaa aatagcaaaa      120
gcctctotca gccactggc ctgaatctac actggaagcc aacttgctgg ccccccgct      180
ccccaaccct tcttgcttg gtaggagagg ctaaagatca ccctaaattt actcatctct      240
ctagtgtgc ctcacattgg gcctcagcag ctccccagca ccaattcaca ggtcaccct      300
ctcttcttgc actgtcccca aacttgctgt caattccgag atctagtctc ccctacgct      360
ctgccaggaa ttctttcaga cctcactagc acaagcccgg ttgtccttg      409
```

&lt;210&gt; 290

&lt;211&gt; 347

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 290

```
aaaataatgt ctgatcctgt tcctaagttc caaactatag ccaacactct gatgctgctc      60
tttttcttgt aggaccaacc gtcccagttt gcctgggact ttctcatttt tacagagtcc      120
caaatcctag gaaactggag caactggtac aactggtcac ctactcttgc ccctctgtaa      180
atcaagccaa ctgtgaccat ccaatgtgcc atcttacagg gaaaagttat aaccacttat      240
```

- 236 -

tcccctataa cntaatgcta atgattgtac ttagtacatt tttatacttt tatgatattt 300

tactgattgg aaatgtcatc ctttattaaa aataaacatg gttttcc 347

<210> 291

<211> 340

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

<400> 291

cccttggtacc cagnagcant tttacaacac ccttacctgc ccgctccaca gcctcagact 60

tggttgagaaa cctacaactt tctacatcag cccatcccct acttacacaa cactctttcc 120

tgcgagttcc agcacatcag gcctcactga ggaatctacc accttccaca ccagtcgaag 180

cttcacttct acaatttgtt ctacttgaaa gcctggaaac ctagcacca gggttgtgcc 240

aggaaggaca aatttggaat ggaaaacaat gcgtctgtcc ccaaggctac gttggttacc 300

aagtgcttgt cccctctgga atccttccct gtagaaaccc 340

<210> 292

<211> 424

<212> DNA

<213> mammalian

<220>

<221> misc\_feature



- 237 -

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 292

tccnacctca ngtttccagg ggcctcactc ttcagagtgg cagagatgaa ctaaagagg	60
agctcatnca ggaagaaagc tctgaagacg aaggagaata tgaagagggt agaaaagatc	120
aggattctgt tggtgaaatg aaggatgaag gggaagagac attaaattat cctgatacta	180
ccattgactt gtctcnnntt tcacccccaa aggtccatcc agaaattggc ttcaaaanag	240
gatctttctaa ttctagtac agtaaatacac agaccggag acattttgca gcccaaggaa	300
agaangggaa atgaaaanaa anacgncccc ntngtngcg ccnattnaa cccctagt	360
aactncccg ccnntccg gtcnnccct tttggggaga gccccaccc nttgggatgc	420
ctan	424

&lt;210&gt; 293

&lt;211&gt; 401

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 293

gtacttttaa ttaaatnccc agtatntaaa aagacaaagt atttttgtcc attgagatt	60
ctgcactcca tgaaaagttc acttggacgc tggggccaaa agctgttgat tttcttaagt	120

- 238 -

tgacggttgt caatatatcg aactgttccc aagttagtca agtatgtctc aacactagca 180  
tgatataaaa ntggnacact gcagctgaat gaaaaaggaa tcaaaaccac tttgtacata 240  
agttaaatcc tattggattt gtnccgtcct cccatttggt ctccggaena ttaaattgcta 300  
catggggtaa ggtctggcct aaatagggtg gcttaaaact tatggtnaaa nngcntgcnn 360  
ccagttttgt cnattaaagg ttttatcccc ttttttaacc c 401

&lt;210&gt; 294

&lt;211&gt; 400

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 294

taggtattat tgtgacancg gccagtcttt tttcttgacg cccagattc cccagccaag 60  
ttagcctaca gaagtataat tcagagaatc caagagtttt gtaatctcca tcagtcaaaa 120  
gaagagaacc tcatcagttc ctgaagcgag agaattgtca ggaccaagca gttaccgagc 180  
gaggcactca cttgggcagc acatccagcc agaccganca gctnccggga tgggggtgggg 240  
tcacagcaaa agggaccaga tgctggtgtg ggcccgaagc cacttttctc agagacactt 300  
ttaatcattg agtatttgta ccttttcttt agaacatata ttaaaggggc attctctaca 360  
aatgtggccg ttttaagaaa taaaaccccc tcaaatcccc 400

- 239 -

<210> 295  
<211> 411  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 295  
nattttcata gaggcccgag gatgtcaatg acaatgcacc acagtacatc agagcctgtt 60  
tattaccag aaatcatgga aaattctcct aaagatgtat ctgtgggtcca gatcgaggca 120  
tttgatccag attcgagctc taatgacaag ctcatgtaca aaattcaagt ggaaatccac 180  
aggattnttt ttcaatacat cctaaaccag gtctcatcac acttacgtca aggaaagcta 240  
gaccgagaac agcaagatga acacatatta gaggggtactg tgacagacaa tgggtagtcc 300  
ccccaatcaa ccattgcaag agtcattggg gaaaatcctt gatgaaatga caacaaacct 360  
cagtttctgc aaaagtctac aaatcagact ccttgacggg aaaagcccga c 411

<210> 296  
<211> 416  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

- 240 -

&lt;400&gt; 296

ctttcctatg ccncaccttt tggacttata tgatgagtgc tcgatccaag aatgttnngtt 60  
ggcgccttga ttactttttg ttgtcccact ctctgttacc tgcattgtgt gacagcaaga 120  
tccgttccaa ggccctcggc agtgatcact gtcctatcac cctataccta gcactgtgac 180  
accnntccct aaatcacttt gagcctgggg aaataacccc ctactacca ttccttcttt 240  
aaacactctt cagagaaatc tgcattctat tctcatgtat aaaactnagg aatcctccac 300  
cagggctcct gtggatagaa gttcttttaa agcccaagat ttttatttta angggttttt 360  
ggtttttttna aaaaaaaatt gaacaaagac tctatgactt ggttcgaata tcccat 416

&lt;210&gt; 297

&lt;211&gt; 439

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 297

cttggccctg ctgagctcta ctgcctgcag gatgggagta cactgggcaa catgaccacc 60  
atggttagcc ctgtggaatt ggtggccatg gagtccggcc taacctcggc aattcaggct 120  
gttgaaagca cctcagagga tgggcagacc atcattgaga ttgatccagc cccngaccn 180  
tttaagctga agatcctgat gntaaagcag tcatcttgga gacagagctg aggactgang 240  
agaaagttgt gggcttgaga atggaagaac acccagcadc naagttcaca atgtgggaga 300

- 241 -

nttggggggtc cttaaaagga attaacctgg ngggatcttc agggccccgg agttnttggt 360  
ttgattttgg aaatttttan ntattttggt ttatttttca cnatnnnccc actcatttcc 420  
cccatnggac ccctttttg 439

&lt;210&gt; 298

&lt;211&gt; 213

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 298

tgcctagcg gagactagaa nccgtagcat gatttttaaa taacctgtct ttgtttttga 60  
tggttaaacag taaatgccag taangaccan gaaccagtga ttatatacac tatactggag 120  
ggatttcatt tttaattcat ctttatgaag atttagaact cattccttgn gtttaaaggg 180  
aatgtttaat tgagaaataa acatttgtgt aca 213

&lt;210&gt; 299

&lt;211&gt; 937

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 299

gttcttgcct ggtgtcgggtg gttagtctct gcgacttgtg ttgggactgc tgataggaag 60  
atgtcttcag gaaatgctaa aattgggcac cctgccccca acttcaaagc cacagctgtt 120

- 242 -

atgccagatg gtcagtttaa agatatcagc ctgtctgact acaaaggaaa atatgttggtg 180  
ttcttctttt accctcttga cttcaccttt gtgtgcccc aaggagatcat tgctttcagt 240  
gatagggcag aagaatttaa gaaactcaac tgccaagtga ttggtgcttc tgtggattct 300  
cacttctgtc atctagcatg ggtcaatata cctaagaaac aaggaggact gggacccatg 360  
aacattcctt tggatcaga ccgaagcgc accattgctc aggattatgg ggtcttaaag 420  
gctgatgaag gcattctggt caggggcctt ttatcattg atgataaggg tattcttcgg 480  
cagatcactg taaatgacct ccctgttggc cgctctgtgg atgagacttt gagactagtt 540  
caggccttcc agttcactga caaacatggg gaagtgtgcc cagctggctg gaaacctggc 600  
agtgatacca tcaagcctga tgtccaaaag agcaaagaat atttctccaa gcagaagtga 660  
gcgctgggct gtttttagtgc caggctgcgg tgggcagcca tgagaacaaa acctcttctg 720  
tatttttttt ttccattagt aaaacacaag acttcagatt cagccgaatt gtggtgtctt 780  
acaaggcagg cctttcctac aggggggtga gagaccagcc tttcttcctt tggtaggaat 840  
ggcctgagtt ggcgttgtgg gcaggctact ggtttgtatg atgtattagt agagcaaccc 900  
attaatcttt tgtagtttgt attaaacttg aactgag 937

&lt;210&gt; 300

&lt;211&gt; 204

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 300

gaagaggaag cagctatgaa ggccaaaaca gagtagcaga ggtatccgtg ttggctggat 60  
tttgaaaatc caggaattat gttataacgt gcctgtatta aaaaggatgt ggtatgagga 120

- 243 -

tccatttcat aaagtatgat ttgcccacac ctgtaccatt tccgtatttc tgctgtagaa 180

gtagaaataa attttcttaa ataa 204

<210> 301

<211> 430

<212> DNA

<213> mammalian

<400> 301

gggcagtgag gctgttcgca gagctgcgga agatgaatgc cagaggactt ggatctgagc 60

taaaggacag tattccagtt actgaacttt cagcaagtgg accttttgaa agtcatgatc 120

ttcttcggaa aggtttttct tgtgtgaaaa atgaactttt gcctagtcac ccccttgaat 180

tatcagaaaa aaatttccag ctcaaccaag ataaaatgaa tttttccaca cttgagaaac 240

attcagggtc tatttgctcc gctaaaatta cagatggaat tcaaggcagt gcagcagggtt 300

cagcgtcttc catttctttc aagctcaaat ctttactgg atgttttgag gggtaatgat 360

gagactattg gatttgagga tatccttaat gatccatcac aaagcgaagt catgggagag 420

ccacactcga 430

<210> 302

<211> 551

<212> DNA

<213> mammalian

<400> 302

ggcagcaggc tccagacccg cagcgcgcgc gcacagagct ctacgcgcgc ctcccagcca 60

cagcctcccg cgcctcgcgc agctccaaca tggcaaaaat ctccagccct acagagactg 120

- 244 -

agcgggtgcat cgagtccttg attgctgtct tccagaagta tgctggaaag gatgggttata 180  
 actacactct ctccaagaca gagttcctaa gcttcatgaa tacagaacta gctgccttca 240  
 caaagaacca gaaggaccct ggtgtccttg accgcatgat gaagaaactg gacaccaaca 300  
 gtgatgggtca gctagatttc tcagaatttc ttaatctgat tgggtggccta gctatggctt 360  
 gccatgactc cttcctcaag gctgtccctt cccagaagcg gacctgagga ccccttggcc 420  
 ctggccttca aaccaccccc ctttccttcc agcctttctg tcatcatctc cacagcccac 480  
 ccatccccctg agcacactaa ccacctcatg caggccccac ctgccaatag taataaagca 540  
 atgtcacttt t 551

&lt;210&gt; 303

&lt;211&gt; 403

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 303

tccgactact tcagagttag atggaagggtg ctggatggat gctttggagt tggctttgaa 60  
 atgttctagt cttcttaaag gtacaatgat cagagaagga aaggaacatg acctgagcgt 120  
 ttcacagat agcgcacatg tgactttcta tggcttacta cgtgctaaca atctccacag 180  
 tggtgataac ttccagttaa atgatagtga aattgaacga caacatttta aggaccaaga 240  
 tatgtattct gataaatctg ataaagaaaa tgatcaagaa catgatgagt ctgataatga 300  
 ggtgatgggg aaaagtgaag aaagtgacac agatacatca gaaagacaag atgactcata 360  
 tatcgaacct gagcctgttg agcctttaag gagactccta cct 403



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<210> 304  
 <211> 243  
 <212> DNA  
 <213> mammalian

<220>  
 <221> misc\_feature  
 <222> ()..()  
 <223> "n" is an unknown nucleotide

<400> 304  
 ctttctccct gntgttgctg ttgggtccct ctgagattca gtaactatTT tnggatcc 60  
 cggcctgtga ttaatattna taanaccatc acagtaactc ctaacagaat tgacctccgc 120  
 cagaaaacag cgtgtggggc gcctagtcgg gatatgcctc caggttaaat cctgttttga 180  
 atatactgct aaccccgctg gttataatcc ttcaatatna attgtgggca cacttgaagc 240  
 tga 243

<210> 305  
 <211> 210  
 <212> DNA  
 <213> mammalian

<400> 305  
 agcactttgt tcactgtcct gtgtcagagc actgagctcc acccttttct gagagttatt 60  
 acagccagaa agtgtgggct gaagatgggt ggtttcatgt ttttgtatta tgtatctttt 120  
 tgtatggtaa agactatatt ttgtacttaa ccagatatat ttttacccca gatggggata 180  
 ttctttgtaa aaaatgaaaa taaagttttt 210

- 246 -

<210> 306  
<211> 339  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 306  
ctgccggtat tctncagatc ctagctnggn ctgatagcc cttaatatat gtttgtatta 60  
tgntatTTTT caactaaatc gcagttggaa aaaaacatat tnaatattat gcccttgga 120  
ctgttactgc atcactagca cttgtgatgc aatanaacac ttcgcctgta ctgaangggc 180  
caanagtaaa tgccttgntt tgTTTTTTtg tttgttctg ttntgatttt tgtaaaca 240  
gtctatagag ttggnagnta atgcttgaat ttgtcanata ccccttccaa aattatactt 300  
gtattttaaaa aatnaangga tctacctaatt ttctattga 339

<210> 307  
<211> 459  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 307

- 247 -

tttgccttcc caaantttcc aggntaacna caaggagata gaaagggttaa aacaactgat 60  
cgacaaagaa acaaatgacc ggaaatgcct ggaagatgaa aacgcgagat tacaaaggg 120  
ccagtatgac ctgcagaaag caaacagtag tgcgacggag acaataaaca aactgaaggt 180  
tcaggagcaa gaacttgaca cgcttgatga tcgactatga aagggtttcc caggagagga 240  
ctgtgaagga ccaggatata acgcgggttcc agaactctct gaaagagctt gcagcttgca 300  
gaagcagaag gtggaagagg agcttgaatc ggctgaagag gaccgcgtca gaagactcct 360  
gcaagaggaa gaagctggag gaagagctgg aaggcatgag gaggtcgctt gaaggagcaa 420  
gcctcaaaat cccacctgac ccagcagctt ggagcaggc 459

&lt;210&gt; 308

&lt;211&gt; 481

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 308

ccctttggac cctaccctgt ttccattaca gtnacttcca aaacgaacaa ggacaccagc 60  
aaattcccca gccctctggg agtttatgca aatattcgcc aaggagcctc cccaattctc 120  
agggccagtg tcacagccct gattgaatca gtgaatggaa aaacagttac cttggaacta 180  
cttgataat ggagcaggtg cttgatgcta cttaaggatg acggtgtcta ctcaagggtat 240  
ttcacaactt atgacacgaa tggtagatac agtgtaaaag tgcgggctct gggaggagtt 300

- 248 -

aacgcagcca gacggagagt gataccccag cagagtggag cactgtacat acctggctgg 360  
 attgagaatg atgaaataca atggaatcca ccaagacctg aaattaataa ggatgatgtt 420  
 caacacaagc aagtgtgttt cagcagaaca tcctcgggag gctattttgtg gntntgatgt 480  
 a 481

&lt;210&gt; 309

&lt;211&gt; 344

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 309

atgaagccaa cacacttgct cttggtttta agaaagattg gttgcaagca gatatgaggg 60  
 atgtggatat gtatataaac ttatttcattg atgcttttga catacaatat ggagtagtgg 120  
 ttattgcctt aaaagaaggt ctggatatat ctcatcttca aggacaagaa gaattattgt 180  
 catcacaaga gaaatctcct ggcaccaagg atgtggtagt aagtgtggaa tatagtaaaa 240  
 agtccgattt agatacttcc aaaccactca gtgaaaaacc aattacacac aaagttgagg 300  
 aagaggatgg caagactgca actcaaccac tgttgaaaaa aaaa 344

&lt;210&gt; 310

&lt;211&gt; 357

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

- 249 -

&lt;400&gt; 310

```

tgaccagcgg ataacaattt cacacaggac gactccaagg aaagctttgc atttaaacca      60
gaaaatatct cagaagaaaa tgcaaccac atatttattg ccattaaann gnatagataa      120
aagcaatttg acntttttaa gtatccaaca ttgcacaagt aactttgttt atccctcaag      180
caaatcctcg atgacattga tctactcct actcctactc ctactcctga taaaagtcac      240
aattctggag ttaatatctt tacgctggta ttgtctgtga ttgggtctgn nngtcnttgt      300
taacttctat ttnaactacc accattnгаа ccttaacгаа anaanaaaat cttcaag      357

```

&lt;210&gt; 311

&lt;211&gt; 373

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 311

```

agcggataac aatttcacac aggagaccat tgcatgccct caactcttgc ttggcagggg      60
taccagagac tgaaagacac ggcacaaatc tcaatattca tctcccatcac cacctttcnt      120
gggaactgga nagggngaaa gtcctcaaac tctgggaaca ggcganaagg aacagggatt      180
taantncccg gccacagggn catgggaagc ttgaggnagn aagggggaan ccagggaccc      240
anntnaagga nnggggtggga gnnttttncc taanttgggg ggacacccca gnntgnaaag      300

```

- 250 -

ctactaagna naaggggntg angggntnaa ggctnccctg aganggataa nctgaganan 360

anntntaact tct 373

<210> 312

<211> 377

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

<400> 312

tagtgnntag cggataacaa ttccacacag gagaccattg cagtacattg agctccatag 60

agacagcgcc ggggcaagtg agagccggac gggcactggg cgactctgtg cctcgctgag 120

gaaaaataac taacntnnnc aaaggagatc ctaagaagcc gagaggcaaa atgtcatcat 180

atgcattttt tnggcaaact tgtcgggagg agcataagaa gaancacca gatgcttcaa 240

gtcaacttct nagagttttc taanaagtgc tcaaaagagg tggaagacca tgtctgctaa 300

agagaaagga aaatttgaag atatngnaaa agcggacnag ggccgttatg aaananaaan 360

gaaacctata ttcttnc 377

<210> 313

<211> 387

<212> DNA

<213> mammalian

<400> 313

- 251 -

agcggataac aatttcacac aggaatggtc gtctcggaga tgcagccaag aaagccatca 60  
gtaaattgac aaccaggaca gtaaagaagg gtgacaagga aactgaccca gactttgatc 120  
attgtgcagt ctgcatagag agctataagc agaatgatgt cgtccgaatt ctcccctgca 180  
agcatgtttt ccacaaatcc tgcgtggatc cctggcttag tgaacattgt acctgtccta 240  
tgtgcaaact taatatattg aaggccctgg gaattgtgcc gaatttgcca tgtactgata 300  
acgtagcatt cgatatggaa gggctcacca gaaccaagc tgttaaccgc aagatcagcc 360  
ctcggcgacc tcgccggcga caactcc 387

&lt;210&gt; 314

&lt;211&gt; 289

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 314

gacaaaagga ccgnaggccc aagggcaata ataagggtga atttgcaggt cagcccagga 60  
attggcagag gaagtaggtg tctgataacc ctttgtggag aatgagattc cccccacctg 120  
tgtgagaaaa ataaacagct ctggagtctt gttcctgact ccagaggaac gagagcattc 180  
caggaaagag agattccctg gaaaattgaa aatgtgaatc ctagggggaa attggggatt 240  
gtgtctttcc ctgttgaaaa tgtttgatg ggaataaata tcttcagga 289

- 252 -

<210> 315  
<211> 389  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide

<400> 315  
tactggaata ttctaaaact cttgttcaca tgctattatg acttataaag cagcaacagc 60  
tgaggcgcac caggacacag cttccatttc tttaacgtct gttcccttaa catcgctgaa 120  
atgatttact gttgaagaga tgccttgccg tgtggccagc tgtgaggaga aagcagcttg 180  
cagtgttagg acattagtcc accttcagct gcagggtctc tggccgggtc tgactcagaa 240  
accttggtac tcgccccttg gccacagtgc ccagacccat gtaaccact ggctcctgca 300  
ttaaccaga aatacctcgc ttctatctgt gcactttage ttgngaactt acccaactgna 360  
ntccctanat aaagcgntta tnaacagga 389

<210> 316  
<211> 439  
<212> DNA  
<213> mammalian

<220>  
<221> misc\_feature  
<222> ()..()  
<223> "n" is an unknown nucleotide



- 253 -

&lt;400&gt; 316

```

gctccacagg ttgntntctg gaggnctcct aaacaccatt attcttcttc acgcttctca      60
nagccctaag gaagagagtg attcctcagc tcaattgtga actgctcctg ccactntgcc      120
ttcctcgtgn aaaaaaacca gactttacat catgggtgac cactcccgca gagttgtaca      180
gaacctccct tggggccaca ggatggctgg attctgtccc ctcatataca aggaggttat      240
tgggacagca tttctcccta gaacaagagt gtatatttca gaaagctatg gatgacttnc      300
catggtcatc agatcactta ggcangaatg ctattctcct gatagatgtg tggaanggat      360
tcaattcatt ttgaccccaa gntctaggcn ctggattaa aatgcccaacc ccaaacgta      420
acttttaata aaaaaaaaaa                                         439

```

&lt;210&gt; 317

&lt;211&gt; 354

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 317

```

tgggtgggctt tcccctcatg tcattggagg catctttggg aagaacaacg ccagcccctt      60
tgatgcaccc tgtcgcacca agaacatgc cggggagatt ccacccagc cctggtacaa      120
gtctacntgt catccacatg actggttgag gcttcctgcc tttcaggtat cctcccttta      180
ttccatggct attactgtca ggttcctgac ctcaattttt cctgtcccta ctcatccagt      240

```

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accctaacc aaccggtga tccctggttc agtggtacca ttcagagatc attaaatggt 300

tcctcctatc cccaagcagg actgagcttg aatgatatga gagtgtctac ttat 354

<210> 318

<211> 393

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

<400> 318

gntgnnnntn nnnntttttg tagcacggtt aacgtcctta aaacccgccg gaattttctgt 60

aagaagtgtg gcaagcacca accccataaa gtgacacagt acaagaaggg caaggattct 120

ctgtacgccc agggaaagcg gcgttatgac aggaagcana gtggctatgg tgggcaaact 180

aagccgattt tccggaaaaa ggctaaaact acaaanaaga ttgtgctaag gcttgagtgc 240

tgttgagccc aactgcagat ctaagagaat gctggctatt aaaagatgca agcattttga 300

actgggagga gataagaaga gaaagggcc aatgatccag ttctaagtgt catcttttat 360

tatgaagaca ataaaatctt gagtttatgt tcg 393

<210> 319

<211> 991

<212> DNA

<213> mammalian

<400> 319

- 255 -

ctggattccc gtcgtaactt aaagggaaat tttcacaatg tccggagccc ttgatgtcct 60  
gcaaataag gaggaggatg tccttaagtt ccttgcagca ggaaccact taggtggcac 120  
caatcttgac ttccagatgg aacagtacat ctataaaagg aaaagtgatg gcatctatat 180  
cataaatctc aagaggacct gggagaagct tctgctggca gctcgtgcaa ttgttgccat 240  
tgaaaaccct gctgatgtca gtgttatatc ctccaggaat actggccaga gggctgtgct 300  
gaagtttgct gctgccactg gagccactcc aattgctggc cgcttcactc ctggaacctt 360  
cactaaccag atccaggcag ccttccggga gccacggctt cttgtggta ctgacccag 420  
ggctgaccac cagcctctca cggaggcatc ttatgttaac ctacctacca ttgcgtgtg 480  
taacacagat tctcctctgc gctatgtgga cattgccatc ccatgcaaca acaaggagc 540  
tcactcagtg ggtttgatgt ggtggatgct ggctcgggaa gttctgcgca tgcgtggcac 600  
catttcccgt gaacacccat gggaggatcat gctgatctg tacttctaca gagatcctga 660  
agagattgaa aaagaagagc aggctgctgc tgagaaggca gtgaccaagg aggaatttca 720  
gggtgaatgg actgctcccg ctctgagtt cactgctact cagcctgagg ttgcagactg 780  
gtctgaaggt gtacaggatg cctctgtgcc tattcagcaa ttccctactg aagactggag 840  
cgctcagcct gccacggaag actggctctgc agctccact gctcaggcca ctgaatgggt 900  
aggagcaacc actgactggc cttaagctgt tcttgcatag gctcttaagc agcatggaaa 960  
aatggttgat ggaaaataaa catcagtttc t 991

&lt;210&gt; 320

&lt;211&gt; 810

&lt;212&gt; DNA

- 256 -

&lt;213&gt; mammalian

&lt;400&gt; 320

```
gctgcaccgc gctcgctccg agtttcaggc tcgtgctaag ctagcgccgt cgtcgtctcc      60
cttcagtcgc catcatgatt atctaccggg acctcatcag ccacgatgag atgttctccg      120
acatctacaa gatccgggag atcgcggacg ggttgtgcct ggaggtggag gggaagatgg      180
tcagtaggac agaaggtaac attgatgact cgctcattgg tggaaatgcc tccgctgaag      240
gccccgaggg cgaaggtacc gaaagcacag taatcactgg tgcgatatt gtcatgaacc      300
atcacctgca ggaaacaagt ttcacaaaag aagcctacaa gaagtacatc aaagattaca      360
tgaaatcaat caaagggaaa cttgaagaac agagaccaga aagagtaaaa ccttttatga      420
caggggctgc agaacaaatc aagcacatcc ttgctaattt caaaaactac cagttcttta      480
ttggtgaaaa catgaatcca gatggcatgg ttgctctatt ggactaccgt gaggatggtg      540
tgaccccata tatgattttc ttaaggatg gtttagaaat ggaaaaatgt taacaaatgt      600
ggcaattatt ttggatctat cacctgtcat cataactggc ttctgcttgt catccacaca      660
acaccaggac ttaagacaaa tgggactgat gtcactttga gctcttcatt tattttgact      720
gtgatttatt tggagtggag gcattgtttt taagaaaaac atgtcatgta ggttgtctaa      780
aaataaaatg catttaaaact catttgagag                                         810
```

&lt;210&gt; 321

&lt;211&gt; 280

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

- 257 -

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 321

gactcactat agggcttttt ttttttnggn ggcaatcaca gtctttaatc attaatngtc 60

atatttctga ttngtttagca agtgccagct ttgtaggctg gttgaagtac agaactcaga 120

ggaanaaaaa aataaaattt tagcttttnt ggganagnag cccntttttg ggacnatnaa 180

aacacttttt tggtttcctt tnaacttggg aactttttta aacattangg gggtnngggg 240

ggggttgggc nattttttta atntnggggn cangngagn 280

&lt;210&gt; 322

&lt;211&gt; 373

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 322

gcggataaca atttcacaca ggatcgatac aggactgttc tggggccagc ttcccttaac 60

tctgtagcct ggcagtctga cccaaagttg ccctcaccca aaggttctgg ctcttcctc 120

cctcantttt actttccctt cccccataag ttggaggata aaatgggtat caatgctaata 180

atttccaggg agaacatgaa accagaggtt tctttctttc tctgtaatct gctatgaaag 240

aaaataacaa atgaaaataa atgtgtacta cactttgaaa tattttaact aaagccttta 300

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ttctatacaa ctgtgaaata cagatTTTtac cctTTTggca ttgcgaaaaa aaaaaaagcc 360

ctatagnggt cgt 373

<210> 323

<211> 400

<212> DNA

<213> mammalian

<400> 323

attagcggat aacaatttca cacaggatcg atacaggatg cttgccaaaa gaggtggata 60

tgtctggggtt gaaactcaag caactgtcat atataacacc aagaattctc aaccacagtg 120

cattgtatgt gtgaattacg ttgtgagtgg tattattcag cacgacttga ttttctccct 180

tcaacaaaca gaatgtgtcc ttaaaccggt tgaatcttca gatatgaaaa tgactcagct 240

attcaccaaa gttgaatcag aagatacaag taagcctctt tgacaaactt aagaaggaac 300

ctgatgcttt aactttgctg gccccagccg ctggagacac aatcatatct ttagattttg 360

gcagcaacga cacagaaact gatgaccaca cttgaggaag 400

<210> 324

<211> 405

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

- 259 -

&lt;400&gt; 324

gatttaatac gactcactat agggcttttt tttttttcgg ancaatgaat ttttaatttt 60

ctcancacaa aaaananata atngaggnga taaatgngct aattncactg attngatcat 120

tatncatcat atncntatat ttaaatatca cacttgtncc ccataaatat gtncaacact 180

tacgtgtcat ttaaaaataa ngataaaatt atatcaagat tcaagcgct ntngtagcgg 240

cttcccacag tcttcacatt ngganggatt ttctccactg nggttttttt gttggtcttt 300

acggtatgac cggatataca gcttctttcc caatcctcac atttgaatgg ttttttcgga 360

atggagtctn tatgattcaa aaacttgagg ccggctaaag ctttt 405

&lt;210&gt; 325

&lt;211&gt; 391

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 325

cgctccagcc cagccctcag cctggcatgc cccctggatc aggccattgg cctcctcgtg 60

gccatcttcc caagtactcc ggcagggagg gtgacaagca caccctgagc aagaaggagc 120

tgaaggagct gatccagaag gagctcacca ttggctcgaa gctgcaggat gctgaaattg 180

caaggctgat ggaagacttg gaccggaaca aggaccagga ggtgaacttc caggagtatg 240

tcaccttcct gggggccttg gctttgatct acaatgaagc cctcaagggc ttgaaaataa 300

ataggaaga tggagacacc ctctgggggt cctctctgag tcaaaccag tgggtgggtaa 360

ttgtacaata aatttttttt ggtcaaattt a 391

&lt;210&gt; 326

- 260 -

&lt;211&gt; 300

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 326

```
catgttggca gaaaattgaa catgactcca gaagaagctg aaaggtggat tgtaaatttg      60
attagaaatg caagactgga tgccaagatt gattctaaat taggtcatgt ggttatgggt      120
aacaatgcag tctcaccccta tcattwaagt gattgaaaag accaaaagcc tttccttttag      180
aagccagatg ttggccatga atattgagaa gaaacttaat cagaatagca ggtcagaggc      240
tcctaacttg ggcaactcaa gattctggct tctactgaag aaccayaaag aaaagatgaa      300
```

&lt;210&gt; 327

&lt;211&gt; 372

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 327

```
aatacgactc actatagggc tttttttttt ttaagttgta atctttgccg ttgtcactga      60
nctcaaaag caattgtttt cccaaatcat ttaagccct cccagtcaa tcttttcctt      120
ctcatcanta acttacaagg accctatttg aaaaacaacg cttattcatt cttttttcta      180
taccacacac attccgttct aggaaatngg caaccacca acacagcccg ggttctccct      240
ccttganatg tgaattttaa caaanggatt ttcgtctecn ttcttcaagc ttanaggatg      300
```



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ancacgcgtt tactacaacg cttaattcct tctagcagca tttctcttct ataactactt 360

gcnctgcttt tt 372

<210> 328

<211> 408

<212> DNA

<213> mammalian

<220>

<221> misc\_feature

<222> ()..()

<223> "n" is an unknown nucleotide

<400> 328

tgattagcgg ataacaattt cacacaggat ccatgactcc acctccatca tcacctcaac 60

ccaaaaaggc ataattaaac tttacttctt ctctttcttc ttccactca tctaacctt 120

actcctaatac acataaccta ttcccccgag caatctcaat tacaatatat acaccaacaa 180

acaatgttca accagtaact actactaatc aacgcccata atcatacaaa gccccgcac 240

caataggatc ctcccgaatc aaccctgacc cctctccttc ataaattatt cagcttctta 300

cactattaaa gtttaccaca accaccacc catcatactc tttcaccac agcaccaatc 360

ctaccttcat cgntacccca ctaaaacact cccaagactt aaccctg 408

<210> 329

<211> 426

<212> DNA

<213> mammalian

<220>

- 262 -

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 329

agcggataac aatttcacac aggacgactc caagtgagaa agatggaaaa atattttggt 60

tctgatgcta gtccatacac tttccaagtc ccacaaaact ttcacaaaaa tgtatataag 120

ctaaatatta gaaacnggat aacaaacntt gttttattta tagatgtaaa aaccaaacia 180

gtcaatatga aagcttttaa tctcttaata ccattaagct ttccagtaag agcatcacat 240

aatgctctac tgttccagaa accaaatagt aaaaaaaaaa aagccctata gngagtcgta 300

ttaaatcgaa tttccccgcg gccgccatgg cggccggnag catgcnacgt cggncccaat 360

tcnccctata gtgagtcgta ttacaattca ctggccgctcg ttttacaacg tcgtgctgga 420

aaccn 426

&lt;210&gt; 330

&lt;211&gt; 282

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 330

ttcctgtcat tccattccaa aaattatgtg gaagtggata ggagaactgc agctgtcaat 60

agcctagggc tgaatttttg tcanataaat aaaataaatc attcatcctt ttttttgatt 120

- 263 -

ataaaaatttt ctaaaatgta ttttagactt cctgtagggg gcgatatact aaatgtatat 180  
 agtacattta tactaaatgt attcctgtag ggggctgata tactaaatgt attttanact 240  
 tcctgtaggg ggcgataaaa taaaatgcta aacaactggg ta 282

&lt;210&gt; 331

&lt;211&gt; 1008

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 331

atgtccacag aaggaggatt tggtggtact agcagcagtg atgccacagca aagcctacag 60  
 tcgttctggc ctcggtcat ggaagaaatc cggaatttaa cagtgaaga cttccgagt 120  
 caggaactcc cactggctcg tattaagaag attatgaaac tggatgaaga tgtgaagatg 180  
 atcagtgcag aagcgctgt actctttgcc aaggcagccc agatttttat cacagagttg 240  
 actcttcgag cctggattca cacagaaaat aacaagcgcc ggactctaca gagaaatgat 300  
 atcgccatgg caattacaaa atttgatcag tttgatcttc tcatcgatat tgtccaaga 360  
 gatgaactga aacctccaaa gcgtcaggag gaggtgcgcc agtctgtaac tcctgccgag 420  
 ccagtccagt actatttcac gctggctcag caaccaccg ctgtccaagt ccatggacag 480  
 cagcaaggcc agcaaacaac cagctccacg aacaccatcc agcctgggca gatcttcac 540  
 gcacagcctc agcagggcca gaccacacct gtgacaatgc aagttggaga aagtcagcag 600  
 gtgcagattg tccaggctca gccacagggt caagcccaac aggccataa tggcactgga 660  
 caaaccatgc aggtgatgca gcagatcatc actaacacag gagagatcca gcagatccc 720

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gtgcagctga atgccggcca gctgcagtat atccgcttag ccagcctgt atcaggcact 780  
caagttgtgc agggacagat ccagacactt gccaccaatg ctcaacagat tacacagaca 840  
gaggtccagc aaggacagca gcagttcagc cagttcacag atggacagca gctctaccag 900  
atccagcaag tcaccatgcc tgcggggccag gacctcgccc agcccatgtt catccagtca 960  
gccaaccagc cctccgacgg caaggccccc caggtgaccg gcgactga 1008

&lt;210&gt; 332

&lt;211&gt; 298

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 332

agtgatttaa tacgactcac tatagggtt ttttttttta gggttnggct ttttattgac 60  
acaaacacac aaaggcagct gnggtaatgg gnggngggg tacacaaaag canaaatcgc 120  
acttcacaca tttaggcctc atttanacaa tgaggaggct gagcctgtcc ctccacctcc 180  
cattgcaang gttggggcaa tancctccc taatcctagc tcagngagta nagggagtga 240  
cctccctacc caggaagtcc ccattttggt tgcaanggnc tcctgtgtga aattgtta 298

&lt;210&gt; 333

&lt;211&gt; 286

&lt;212&gt; DNA

&lt;213&gt; mammalian

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&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 333

cccgggcatc agccccgagg aatgcgcctc tcggaagtgc tgcttctcca acttcatctt 60

tgaagtgcc tggtgcttct tcccgaagtc tgtggaagac tgccattact aagagaggct 120

ggttccagag gatgcatctg gctcaccggg tgttccgaac caaagaagaa acttcgcntt 180

atnagcttca tatttcatga aatcctgggt tttcttaacc atcttttctt cattttcaat 240

ggtttaacat ataatttctt taaataaaaac tottaaaaatc tgctaa 286

&lt;210&gt; 334

&lt;211&gt; 442

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 334

ggtccaaggt ggattcaaac gaactgtggc tgcaccatct gtcttcatct tcccgccatc 60

tgatgagcag ttgaaatctg gaactgcctc tgttgtgtgc ctgctgaata acttctatcc 120

cagagaggcc aaagtacagt ggaaggtgga taacgccctc caatcgggta actcccagga 180

gagtgtcaca gagcaggaca gcaaggacag cacctacagc ctcagcagca cctgacgct 240

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tgagcaaagc agactacgag aaacacaaag tctacgcctg cgaagtcacc catcagggcc 300  
tgagctcgcc cgtcacaaag agcttcaaca ggggagagtg ttagagggag aagtgtcccc 360  
acctgtcct cagttccagc ctgacccct nccatccttt ggcctctgac cctttttcca 420  
caggggacct acccctattg cg 442

&lt;210&gt; 335

&lt;211&gt; 353

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; ()..()

&lt;223&gt; "n" is an unknown nucleotide

&lt;400&gt; 335

gagcnggcgc agtgattata ggctttcgct ctaagattaa aaatgcccta gccactttct 60  
taccacaagg cacacctaca ccccttatcc ccatactagt tattatcgaa accatcagcc 120  
tactcattca accaatagcc ctggccgtac gcctaaccgc taacattact gcaggccacc 180  
tactcatgca cctaattgga agcgcaccct agcaatatca accattaacc ttcctctac 240  
acttatcatc ttcacaattc tgattctact gactatccta gaaatcgctg tcgcttaatc 300  
caagcctacg ttttcacact tctagtaagc ctctacctgc acgacaacac ata 353

&lt;210&gt; 336

&lt;211&gt; 396

&lt;212&gt; DNA

- 267 -

&lt;213&gt; mammalian

&lt;400&gt; 336

cttcgggtttt agtcattcct atctcaatct taatgggtgat tcttctctgt tgaactgaag 60  
tttgtgagag tagttttcct ttgctacttg aatagcaata aaagcgtggt aactttttga 120  
ttgatgaaag aagtacaaaa agcctttagc cttgaggtgc cttctgaaat taaccaaatt 180  
tcatccatat atcctctttt ataaacttat agaatgtcaa actttgcctt caactgtttt 240  
tatttctagt ctcttccact ttaaaacaaa atgaacactg cttgtcttct tccattgacc 300  
atttagtggt gagtactgta tgtgttttgt taattctata aaggtatctg ttagatatta 360  
aaggtgagaa ttagggcagg ttaatcaaaa aaaaaa 396

&lt;210&gt; 337

&lt;211&gt; 279

&lt;212&gt; DNA

&lt;213&gt; mammalian

&lt;400&gt; 337

gtattgaaca aaagacggaa ggtgctgaga aaaaacagca gatgggctcg agaatacaga 60  
gagaaaattg agacggagct aagagatatc tcgcaatgat gtactgtctc ttttgaaaa 120  
gttcttgatc cccaatgctt cacaagcaga gagcaaagtc ttctatttga aaatgaaagg 180  
agattctacc gttacttggc tgaggttgcc gctgggtgatg acaagaaagg gattgtcgat 240  
cagtcacaac aagcatacca agaagctttt gaaatcagc 279

&lt;210&gt; 338

&lt;211&gt; 749

&lt;212&gt; DNA

- 268 -

&lt;213&gt; mammalian

&lt;400&gt; 338

agccaacaga gattgttgat ttgcctctta agcaagagat tcattgcagc tcagcatggc	60
tcagaccagc tcatacttca tgctgatctc ctgcctgatg tttctgtctc agagccaagg	120
ccaagaggcc cagacagagt tgccccaggc ccggatcagc tgcccagaag gcaccaatgc	180
ctatcgctcc tactgctact actttaatga agaccgtgag acctggggtg atgcagatct	240
ctattgccag aacatgaatt cgggcaacct ggtgtctgtg ctcaccagg ccgagggtgc	300
ctttgtggcc tcaactgatta aggagagtgg cactgatgac ttcaatgtct ggattggcct	360
ccatgacccc aaaaagaacc gccgctggca ctggagcagt gggtccctgg tctcctacaa	420
gtcctggggc attggagccc caagcagtgt taatcctggc tactgtgtga gcctgacctc	480
aagcacagga ttccagaaat ggaaggatgt gccttgtgaa gacaagttct cttttgtctg	540
caagttcaaa aactagaggc agctggaaaa tacatgtcta gaactgatcc agcaattaca	600
acggagtcaa aaattaaacc ggaccatctc tccaactcaa ctcaacctgg acactctctt	660
ctctgctgag ttgacctgt taatcttcaa tagttttacc taccocagtc tttggaacct	720
taaataataa aaataaacat gtttccact	749